

U.S. Department of Transportation

**ISSUE: 98-13** 

Federal Aviation Administration





March 22, 1998 - March 28, 1998

# Summary

**GENERAL AVIATION, ZAC-327** 

You can improve Air Safety by reporting the problem when you see it!

### **SECTION**

- I Significant Occurence Report
- **II Domestic Service Difficulty Report**
- **III** International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- VI Joint Aircraft System/Component Code Table



# **SDR SUMMARY**

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

### http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

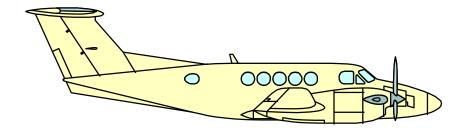
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john\_e\_jackson@mmacmail.jccbi.gov

james\_gillespie@mmacmail.jccbi.gov

blake\_mcdonald@mmacmail.jccbi.gov



# SIGNIFICANT OCCURRENCE REPORT





### THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5740	438RJ	AIRTRC				ANGLE	CRACKED	1241	3/2/98
Q2AR	502A0345	AT502A					WING ATTACH OTBD		98ZZZX1162
****	DURING ANNUAL	INSPECTION AND C/W	WING ATTACH AND	GLE BOLT INSPECTIO	N, OUTBOARD WIN	G ATTACHMENT ANGLE	FOUND CRACKED.		
5520	77412	CESSNA				BEARING	WORN	4626	2/15/98
	11853	120				042215	ELEVATOR HINGE		98ZZZX1137
****	INSPECTION FOUL	ND INNER RACE ELEVA	ATOR HINGE BEARIN	IG INSIDE DIAMETER	R WORN EXCESSIVE	ELY. REPLACED BEARING	AND BOLT.		
5753	4642J	CESSNA				BEARING	FAILED	7200	1/13/98
	17273658	172N				0523920	RT OUTER AFT		98ZZZX1134
****	UNTIL AFTER THE		AMAGED BY THE BI	INDING. THE FLAP SI	KINS AND SPAR WE	ERE DAMAGED OUTBOARI	E FLAP TO BIND AND TRIP C O OF PUSH/PULL ROD. DAMA		,
5753	94035	CESSNA				BEARING	SEIZED	1960	1/26/98
	21060487	T210L				0523920	FLAP ROLLER		98ZZZX1132
*****						ND 10 OUT OF 12 BEARING IS REQUIRING REMOVAL.	S WITH THE NEEDLE BEARIN	IGS SEIZE	D. NO VISUAL SIGN
140	2644U	CESSNA				FUEL LINE	CORRODED		3/4/98
	310R1811	310R			8259JR2		HEATER		98ZZZX1120
****		INSPECTION AND BY TED THIS IS THE THIRD					FUEL INLET LINE AFT OF T	НЕ НЕАТЕ	R PUMP VALVE.
3230	5092P	CESSNA				TUBE ASSY	FAILED	7451	3/9/98
	310P0057	310P				08421211	NLG		98ZZZX1110
****	NOSE GEAR ROD	END ASSY FAILED. TH	E BEARING WAS FRI	EE AND NOT SEIZED.					
5700	340TS	CESSNA				NACELLE	CORRODED	2095	2/16/98
XM8R	340A0999	340A				562010023	LT WING ASSY		98ZZZX1144
****	CORROSION FND NACELLE COVER FROM HEAT AND	ON UPPER WING SKIN AND FUEL CELL, SEVE FUEL CELL HEAT SHIE	AND STRS. FUEL CE ERE CORROSION FND ELD IS BURNED THRO	LL LINER CORRODE D. UPPER WING SKIN DUGH. HEAT DAMAC	D (EXFOLIATED). A STRINGERS AND U SE MAY BE CAUSED	ALSO, LT NACELLE INSPE JPPER SPAR CAP ARE ALL	L LINER, HEAT SHIELD, AND CTED FOR SIMILAR CONDITI EXFOLIATED. AFT SIDE OF I LURE. ACFT IS WELL MAINT	ON. AFTE LT FIREWA	R REMOVAL OF LT ALL DISCOLORED
2510	87144	CESSNA				BRACKET	FAILED		2/25/98
	402B0933	402B					PILOT SEAT BACK		98ZZZX1174
****	PILOT SEAT BACK	RECLINED IN-FLIGHT	BRACKET ON RIGH	HT SIDE OF SEAT BRO	OKEN. CASTING AP	PEARS TO HAVE BEEN CR	ACKED PRIOR TO FAILURE.		
2731	PHECA	CESSNA				ELEV TAB	MISRIGGED	3700	3/8/98
	0321	414A					ELEV TRIM		98ZZZX1181
****	TRIM TABS AND I WITH MM REV 31 FIRST FLIGHT (TR	FOUND IN MM, REV 31, , DATED 2-3-97. (OLD T	RIGGINGS FOR ELEV RAVELS WERE: 12 I KPERIENCED A NOSE	V TRIM TAB UP: 5 DE DEG UP AND 20 DEG I E UP AT TAKE OFF TH	G AND DOWN: 30 D DOWN, TOL. +1 DEC	EG. DOUBLE CK MM REV 6). DURING INSTALL, SET	UP/21 DEG DOWN. CHECKED HISTORY, FOUND ELEV TRI TRAVELS IAW MM REV 31: 5 NG THE ELEV; IT WAS AGAIN	M TAB TR. 5 DEG UP A	AVELS ALTERED AND 30 DEG DOWN.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7120	441W	CESSNA				MOUNT	CRACKED	5039	2/12/98
WTXR	4410181	441				57510061	LT ENG INBD		98ZZZX1122
****	WHILE INVESTIGATED TRUSS.		NE, FOUND AN ENGIN	NE MOUNT TUBE CR	ACKED THROUGH C	ON LT ENGINE INBOARD, U	JPPER CLUSTER, LOWER TU	JBE. INSTA	ALLED DIFFERENT
2435		DHAV	PWA		LUCAS	BEARING	UNAPPROVED		12/18/97
		DHC6300	PT6A27		23048004	9204SSX10	START/GEN	987	CA971231025
****	03-6010-18 SHOUL	D BE USED. THERE WA	AS ALSO A BRASS SH	IM BETWEEN THE D	RIVE SHAFT AND TI		MANUFACTURED BY BARDI NG THE HUB TO SIT LOWER		
2430	19PV	GULSTM				GROUND CONNECT	LOOSE	514	3/13/98
	560416	560					START/GENERATOR		98ZZZX1169
****							R GROUND CONNECTIONS MPROPER TORQUE OF ATTA		
5711	600AA	PIPER				SPAR CAP	CORRODED	4577	3/18/98
	2825102	PA28140					AFT SPAR CAP		98ZZZX1172
****		SPECTION, FOUND EVE THE INSULATION HOL		OUNDPROOF INSULA	TION COMES IN CO	NTACT WITH THE FERROU	JS AFT SPAR CAP, THAT CO	RROSION	SETS IN DUE TO THE
2140	63ND	PIPER				HEATER	FAILED	362	3/5/98
	317852098	PA31350				B405065D722	FORWARD		98ZZZX1123
****	EVACUATED THE HEATER HAD OVE	SMOKE FROM THE CAERHEATED. WITHOUT	BIN. THE FLIGHT CO FURTHER INSPECTION	ONTINUED TO THE O	RIGINAL DESTINAT S, THE DAMAGE ANI	TON. THE AIRCRAFT WAS D SYMPTOMS ARE CONSIS	DUCTS. PILOT SHUT DOWN INSPECTED AND FOUND U TENT WITH A PERFORATEI DURS OF OPERATION SINCE	NDAMAGI D BURNER	ED. THE FORWARD CAN. THIS
6710	159RP	ROBSIN				SPRING ASSY	FAILED	199	3/12/98
	0342	R44			C5811	C0561	LATERAL TRIM		98ZZZX1164
****	TRIM MOTOR ARM REPLACEMENT SE	M P/N C581-1 FROZEN C	ON SPRING SHAFT. SU EARING IS STAKED II	UBMITTER STATED I	HAD THIS UNIT FAII B BLOCK, YET THIS	LED IN-FLIGHT, LOSS OF C IS NOT THE CAUSE OF THI	NTING BLOCK AND DANGL ONTROL WOULD HAVE BE E AD. SUBMITTER RECOMN	EN POSSIB	LE. THE
6710	972SA	ROBSIN				SHAFT	WORN	63	1/22/98
	0394	R44				C5851	CYCLIC CONTROL		98ZZZX1115
****	LATERAL TRIM A REVEALED THE S.	CTUATOR ASSEMBLY AME PROBLEM. LATE RRECT THIS PROBLEM	SHAFT, PN C585-1, HA RAL TRIM ACTUATO	AD A STEP WORN IN R ASSEMBLY WAS R	IT WHICH ALLOWE	D THE TRIM ACTUATOR T	SING CYCLIC INPUT. INVES O JAM. THREE ADDITIONA DMMENDATIONS SUBMITT	L AIRCRA	FT INSPECTED

# Run Date: 02-Apr-98

# FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 3/22/98 To 3/28/98

PART NUMBER		<u>.</u>						YEA	R					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
042215														
BEARING	120	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 042215		1												1
0523920														
BEARING	172N	1	-	-	-	-	-	-	-	-	-	-	-	1
	T210L	1	_	_	_	_	-	_	_	_	_	-	_	1
BUSHING	172N	1	-	-	-	-	-	-	-	-	1	-	-	-
ROLLER	172	1	-	-	-	1	-	-	-	-	-	-	-	-
	150) (													
	172M	1	-	-	-	1	-	-	-	-	-	-	-	-
	172N	1	-	-	-	-	-	-	-	-	-	-	1	-
	TU206G	1	_	_	_	_	_	_	_	_	1	_	_	_
ROLLER ASSY	172M	1	-	-	-	-	-	-	-	-	-	-	-	1
	172RG	1	-	-	-	-	-	-	-	-	-	1	-	-
	1025													
	182C	1							1					
TOTAL of # 0523920	)	10	-	-	-	2	-	-	1	-	2	1	1	3
<b>08421211</b> BELLCRANK	310L	1				_	_	_		_	1	_	_	
BLLCKAIVK	310L	1	_	_	_	_	_	_	_	_	1	_	_	_
PUSH PULL ROD	320F	1	-	-	-	1	-	-	-	-	-	-	-	-
PUSH-PULL TUBE	310K	1	-	-	-	-	-	-	-	-	1	-	-	-
RETRACT TUBE	310Q	1	_	_	_	1	_	_	_	_	_	_	_	_
		•				=								

# FAA SIGNIFICANT OCCURRENCE REPORT INDEX 3/22/98 To 3/28/98 (cont'd)

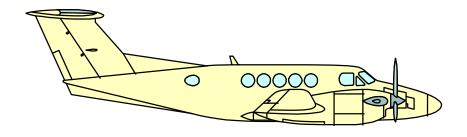
PART NUMBER								YEA	R					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
08421211														
ROD ASSEMBLY	310N	1	-	-	-	-	-	1	-	-	-	-	-	-
TUBE	310Q	1	-	-	-	1	-	-	-	-	-	-	-	-
TUBE ASSY	310A	1	-	-	-	-	-	-	-	-	1	-	-	-
	310L	1	-	-	-	-	-	-	-	-	-	-	1	-
	310P	1	-	-	-	-	-	-	-	-	-	-	-	1
	310Q	1	-	-	-	-	-	-	-	1	-	-	-	-
	T310Q	1								1				
TOTAL of # 08421211		11	-	-	-	3	-	1	-	2	3	-	1	1
<b>5011002593</b> SKIN	B300C	1												1
TOTAL of # 50110025	93	1	-	-	_	-	-	-	-	-	-	-	-	1
<b>562010023</b> NACELLE	340A	1												1
TOTAL of # 56201002	3	1	_	-	_	-	-	_	_	-	-	-	-	1
<b>57510061</b> MOUNT	441	1												1
TOTAL of # 57510061		1	-	-	-	-	-	-	-	-	-	-	-	1
5A26441 RESERVOIR	747438	1	_		_									1
<b>TOTAL of # 5A26441</b>		1	-	-	-	-	-	-	-	-	-	-	-	1
9204SSX10 BEARING	DHC6300	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 9204SSX1	10	1	_	_			_	_	_	_	_	_	_	1
<b>B405065D722</b> HEATER	PA31350	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # B405065I	0722	1												1
C0561 SPRING ASSY	R44	2	-	-	-	-	-	-	-	-	-	-	1	1

# FAA SIGNIFICANT OCCURRENCE REPORT INDEX 3/22/98 To 3/28/98 (cont'd)

PART NUMBER								YEA	R					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
TOTAL of # C0561	(	2											1	1
C5851														
SHAFT	R44	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # C5851	[	1	-				-				-			1
F12A11														
BEARING	unknown	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # F12A	11	1				-	-							1
TOTAL for ALL (31) P	ART NUMBERS:	32	-	-	-	5	-	1	1	2	5	1	3	14
END OF SIGNIFICANT O	CCURRENCE REPORT INDEX													



# DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5740	438RJ	AIRTRC				ANGLE	CRACKED	1241	3/2/98
Q2AR	502A0345	AT502A					WING ATTACH OTBD		98ZZZX1162
****	DURING ANNUAL	L INSPECTION AND C/W	WING ATTACH AND	GLE BOLT INSPECTIO	N, OUTBOARD WIN	IG ATTACHMENT ANGLE	FOUND CRACKED.		
7603	5169X	BBAVIA				CABLE	FAILED	2487	3/3/98
	676	7ECA				31402	THROTTLE		98ZZZX1119
							VIRE .090 INCH DIAMETER. I GRADE AIRCRAFT TO LATE		
2434	3058S	BEECH				ALTERNATOR	FAILED		3/15/97
	CE1099	F33A				646843	WINDING		98ZZZX1128
	PILOT EXPERIENCE	CED ELECTRICAL SYST	EM FAILURE. MADE	E EMERGENCY LAND	ING WITHOUT INC	DENT. FOUND ALTERNA	TOR FAILED.		
2721	955AA	BEECH				NUT	CORRODED	28112	2/1/98
TIMA	UI28	99A				AN3166R	RUD TAB ACTUATOR		98ZZZX1171
	RUDDER TAB AC	TUATOR NUT FOUND (	CORRODED DURING	ROUTINE INSPECTIO	N.				
5520	77412	CESSNA				BEARING	WORN	4626	2/15/98
	11853	120				042215	ELEVATOR HINGE		98ZZZX1137
****	INSPECTION FOU	ND INNER RACE ELEVA	ATOR HINGE BEARIN	NG INSIDE DIAMETER	R WORN EXCESSIVE	ELY. REPLACED BEARING	AND BOLT.		
5711	77412	CESSNA				SPAR BLOCK	CORRODED	4626	2/15/98
	11853	120				0411131	FRONT SPAR		98ZZZX1135
							AND PAINTED WITH ZINC C S ARE TAKEN OFF FOR ANY		
5711	77412	CESSNA				SPAR BLOCK	CORRODED	4626	2/15/98
	11853	120				0411476	REAR SPAR		98ZZZX1136
	· /	,					AND PAINTED WITH ZINC C S ARE TAKEN OFF FOR ANY		
5753	4642J	CESSNA				BEARING	FAILED	7200	1/13/98
	17273658	172N				0523920	RT OUTER AFT		98ZZZX1134
****	UNTIL AFTER TH		AMAGED BY THE BI	INDING. THE FLAP S	KINS AND SPAR WE	RE DAMAGED OUTBOAR	IE FLAP TO BIND AND TRIP C D OF PUSH/PULL ROD. DAM		
5312	42279	CESSNA				BULKHEAD	CRACKED	4208	3/5/98
	18258940	182L				07126161	RT RUD STOP		98ZZZX1178
	BULKHEAD FOUN	ND CRACKED AT RIGHT	RUDDER STOP APP	ROXIMATELY .50 INC	CH LONG. REMOVE	D AND REPLACED BULKE	IEAD ASSY. THIS REPORT SU	BMITTED	IN C/W AD 72-07-09.
3246	4535F	CESSNA				NUT	STRIPPED		3/16/98
	1851021	A185E				AN365	LT MLG		98ZZZX1175
		H LANDING, LEFT WHE HROUGH THE AN365 NU					VED, BUT OVERSIZE. NAS BO	LTS HOLD	ING AXLE TO GEAR

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5312	5837F	CESSNA				BULKHEAD	CRACKED		3/10/98
	21058837	210G				12128582	BS 230.187		98ZZZX1138
	BULKHEAD FOUN	D CRACKED DURING	ANNUAL INSPECTION	V PER AD 72-07-09. EI	FFECTIVE DATE 4-1-	72.			
5753	94035	CESSNA				BEARING	SEIZED	1960	1/26/98
	21060487	T210L				0523920	FLAP ROLLER		98ZZZX1132
****					,	D 10 OUT OF 12 BEARING S REQUIRING REMOVAL.	S WITH THE NEEDLE BEAR	INGS SEIZE	D. NO VISUAL SIGN
5753	94035	CESSNA				BEARING	SEIZED	1960	1/26/98
	21060487	T210L				0523921	FLAP ROLLER		98ZZZX1133
					,	D 10 OUT OF 12 BEARING S REQUIRING REMOVAL.	S WITH THE NEEDLE BEAR	INGS SEIZE	D. NO VISUAL SIGN
2140	2644U	CESSNA				FUEL LINE	CORRODED		3/4/98
	310R1811	310R			8259JR2		HEATER		98ZZZX1120
*****		INSPECTION AND BY (ED THIS IS THE THIRD					FUEL INLET LINE AFT OF	ТНЕ НЕАТЕ	R PUMP VALVE.
3230	5092P	CESSNA				TUBE ASSY	FAILED	7451	3/9/98
	310P0057	310P				08421211	NLG		98ZZZX1110
****	NOSE GEAR ROD I	END ASSY FAILED. TH	E BEARING WAS FRE	EE AND NOT SEIZED.					
5312	3038R	CESSNA				SUPPORT	BUCKLED	13	3/9/98
	320A0038	320A				081107510	AFT CABIN		98ZZZX1112
	DURING ANNUAL	INSPECTION, FOUND I	REAR CABIN BULKHE	EAD SUPPORT (PN 08	11075-10) BUCKLED	UPON FURTHER DISASS	EMBLY, FOUND FITTING S	EVERELY C	ORRODED.
5711	3038R	CESSNA				FITTING	CORRODED	13	3/9/98
	320A0038	320A				08112763	SPAR AFT CABIN		98ZZZX1113
	DURING ANNUAL	INSPECTION, FOUND I	REAR CABIN BULKHE	EAD SUPPORT (PN 08	11075-10) BUCKLED.	UPON FURTHER DISASS	EMBLY, FOUND FITTING S	EVERELY C	ORRODED.
3213	4104G	CESSNA				STRUT	WORN	4400	2/25/98
A19R	340A0279	340A				5141001213	LOWER LINK LUG		98ZZZX1161
	INSPECTION OF LO AND EXTREME CI		SSY FOUND LUG HOL	ES ELONGATED IN I	INE WITH LOWER T	ORQUE LINK. SUSPECT (	CORROSION INDUCED WEA	AK DUE TO I	POOR LUBE HISTORY
5412	340TS	CESSNA				HEAT SHIELD	BURNED		2/16/98
XM8R	340A0999	340A				56560061	LT FIREWALL		98ZZZX1143
	HEAT SHIELD IS B	URNED THROUGH. TH	IE HEAT DAMAGE IS	BELIEVED TO BE CA	USED BY A PREVIO		FIREWALL DISCOLORED FI THIS AIRCRAFT IS WELL M. Y SIMILAR AIRCRAFT.		
5700	340TS	CESSNA				NACELLE	CORRODED	2095	2/16/98
XM8R	340A0999	340A				562010022	RT WING ASSY		98ZZZX1145
	CORROSION FND NACELLE COVER FROM HEAT AND	ON UPPER WING SKIN AND FUEL CELL, SEVE FUEL CELL HEAT SHIE	AND STRS. FUEL CEI TRE CORROSION FND LLD IS BURNED THRO	LL LINER CORRODE . UPPER WING SKIN, UGH. HEAT DAMAC	D (EXFOLIATED). A , STRINGERS AND UI GE MAY BE CAUSED	LSO, LT NACELLE INSPEC PPER SPAR CAP ARE ALL	LL LINER, HEAT SHIELD, AN CTED FOR SIMILAR CONDI EXFOLIATED. AFT SIDE OF LURE. ACFT IS WELL MAIN	ΓΙΟΝ. AFTE F LT FIREW	R REMOVAL OF LT ALL DISCOLORED

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5700	340TS	CESSNA				NACELLE	CORRODED	2095	2/16/98
XM8R	340A0999	340A				562010023	LT WING ASSY		98ZZZX1144
****	CORROSION FND NACELLE COVER FROM HEAT AND	ON UPPER WING SKIN AND FUEL CELL, SEVE FUEL CELL HEAT SHIE	AND STRS. FUEL CE TRE CORROSION FND LD IS BURNED THRO	ELL LINER CORRODE D. UPPER WING SKIN, DUGH. HEAT DAMAG	D (EXFOLIATED). A STRINGERS AND U SE MAY BE CAUSED	ALSO, LT NACELLE INSPEC JPPER SPAR CAP ARE ALL I	L LINER, HEAT SHIELD, ANI TED FOR SIMILAR CONDITI EXFOLIATED. AFT SIDE OF URE. ACFT IS WELL MAIN	ON. AFTE LT FIREW	R REMOVAL OF LT ALL DISCOLORED
2510	87144	CESSNA				BRACKET	FAILED		2/25/98
	402B0933	402B					PILOT SEAT BACK		98ZZZX1174
****	PILOT SEAT BACK	K RECLINED IN-FLIGHT	. BRACKET ON RIGH	HT SIDE OF SEAT BRO	KEN. CASTING AP	PEARS TO HAVE BEEN CRA	ACKED PRIOR TO FAILURE.		
2731	PHECA	CESSNA				ELEV TAB	MISRIGGED	3700	3/8/98
	0321	414A					ELEV TRIM		98ZZZX1181
****	TRIM TABS AND F WITH MM REV 31, FIRST FLIGHT (TR	FOUND IN MM, REV 31, , DATED 2-3-97. (OLD T	RIGGINGS FOR ELEV RAVELS WERE: 12 D KPERIENCED A NOSE	V TRIM TAB UP: 5 DE DEG UP AND 20 DEG I E UP AT TAKE OFF TH	G AND DOWN: 30 D DOWN, TOL. +1 DEG	EG. DOUBLE CK MM REV 5). DURING INSTALL, SET T	IP/21 DEG DOWN. CHECKEI HISTORY, FOUND ELEV TRI TRAVELS IAW MM REV 31: : IG THE ELEV; IT WAS AGAII	M TAB TR. 5 DEG UP A	AVELS ALTERED AND 30 DEG DOWN.
5610	88584	CESSNA				WINDSHIELD	DEPARTED	7500	12/1/97
	421C0642	421C				5111604202	COPILOT		98ZZZX1173
	THE AIRFRAME.		HE CRACK ORIGINA	TED AT THE RIGHT L			PPROXIMATELY 10 PERCENTHE TOP OF THE WINDSHII		
7120	441W	CESSNA				MOUNT	CRACKED	5039	2/12/98
WTXR	4410181	441				57510061	LT ENG INBD		98ZZZX1122
****	WHILE INVESTIGATED TRUSS		NE, FOUND AN ENGI	NE MOUNT TUBE CRA	ACKED THROUGH (	ON LT ENGINE INBOARD, U	JPPER CLUSTER, LOWER TU	BE. INSTA	ALLED DIFFERENT
2430	19PV	GULSTM				GROUND CONNECT	LOOSE	514	3/13/98
	560416	560					START/GENERATOR		98ZZZX1169
****							R GROUND CONNECTIONS MPROPER TORQUE OF ATTA		
2434	727MB	PIPER			ELECTROSYS	ALTERNATOR	FAILED		3/16/98
	61P079680634	PA60601P				02035		9	98ZZZX1114
	OVERHAULED AL	TERNATOR FROM ELE	CTROSYSTEMS FAIL	LED 3 HOURS INTO FI	RST FLIGHT AFTER	INSTALLING. (INTERNAL	FAILURE).		
2750		PIPER				SPRING	FAILED	4400	3/10/98
		PA28140				6282000	FLAP RETURN		98ZZZX1124
	BEYOND FULL EX SPRING HAD BRO AND SPROCKET.	TENDED POSITION AN KEN WHERE IT ATTAC	D LOCKED. FLAPS O HES TO FLAP TORQU SO THAT SPROCKET	COULD NOT BE RAISE UE TUBE SPROCKET ( TOOTH AND SPRING	ED WITH FLAP CON CHAIN ALLOWING ATTACH END ARE	TROL HANDLE. MAINTEN. CHAIN TO DROP ONTO SPR FORCED TO SHARE THE S	OTICED FLAPS EXTENDED ANCE INVESTIGATION REV OCKET AND JAM BETWEEN AME CHAIN LINK WHENEV	EALED TH N LOWER F	AT FLAP RETURN FLAP INPUT CHAIN

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2810	8777W	PIPER				FUEL TANK	MISINSTALLED		2/1/98
	2810321	PA28235					LT/RT MAIN		98ZZZX1118
	12 (OR EQUIVALE)	NT) STRUCTURAL SCR	EWS ALONG THE SPA	AR, TOP AND BOTTO	M, AND 80 EACH MS		HS. THIS INSTALLATION CAL NG THE SIDES OF THE TANKS CT DATES AND TIMES.		
3246	2558M	PIPER			PARKERHANFIN	WHEEL	CRACKED	3592	2/23/98
MOGR	287890256	PA28181				04008602	BOLT HOLE		98ZZZX1107
		G TIRE, FOUND WHEEL BREAK TIRE LOOSE. V			RED TO BE DRILLED	OFF-CENTER. ALSO, ARI	EA BELOW TIRE BEAD GOUG	ED PREV	IOUSLY BY SHARP
3246	2558M	PIPER				WHEEL	GOUGED	3592	2/23/98
MOGR	287890256	PA28181				04008602	BEAD AREA		98ZZZX1106
	WHILE CHANGING	G TIRE, FOUND AREAS	BELOW TIRE BEAD A	AREAS SEVERELY GO	OUGED BY SHARP TO	OOL. WHEEL WAS REPLA	CED WITH NEW.		
5711	600AA	PIPER				SPAR CAP	CORRODED	4577	3/18/98
	2825102	PA28140					AFT SPAR CAP		98ZZZX1172
****		SPECTION, FOUND EVE THE INSULATION HOL		OUNDPROOF INSULA	TION COMES IN COM	NTACT WITH THE FERROU	JS AFT SPAR CAP, THAT CORI	ROSION	SETS IN DUE TO THE
7820	2558M	PIPER				MUFFLER	FAILED	3592	2/23/98
MOGR	287890256	PA28181				6751700	ENGINE		98ZZZX1105
		INSPECTION, ENGINE BE. MUFFLER WAS RE		CH AND WOULD NO	T DEVELOP FULL PO	WER. TROUBLESHOOTIN	G REVEALED MUFFLER TAIL	PIPE 50 I	PERCENT BLOCKED BY
2140	63ND	PIPER				HEATER	FAILED	362	3/5/98
	317852098	PA31350				B405065D722	FORWARD		98ZZZX1123
****	EVACUATED THE HEATER HAD OVE	SMOKE FROM THE CAERHEATED. WITHOUT	BIN. THE FLIGHT CO FURTHER INSPECTION	ONTINUED TO THE OON OF THE HEATERS	RIGINAL DESTINATI , THE DAMAGE AND	ON. THE AIRCRAFT WAS SYMPTOMS ARE CONSIS	DUCTS. PILOT SHUT DOWN T INSPECTED AND FOUND UNI TENT WITH A PERFORATED I JURS OF OPERATION SINCE T	DAMAGI BURNER	ED. THE FORWARD CAN. THIS
6120	112AG	PIPER				BRACKET	FAILED	11740	2/12/98
	31698	PA31310				4090500	PROPELLER CABLE		98ZZZX1177
	FOUND PROP CAB		CKET BROKEN AND C	ABLE STIFF. FREED	UP CABLE AND REP	LACED BRACKET. OPERA	CONTROL BROKE FREE, BUT ATIONAL CHECK OK. SUGGES		
2434	22382	PIPER			PRESTOLITE	ALTERNATOR	FAILED		2/24/98
ONFR	347870459	PA34200T				ALX9425B	BRUSH HOLDER		98ZZZX1126
		LED AFTER 2 MINUTE RING. CAME FROM O			RCUIT. FOUND RED	SILICONE SEALANT TYPE	E MATERIAL AROUND BRUSH	HOLDE	R PREVENTING BRUSH
Fnd of DO	MESTIC SERVICE	DIFFICULTY REPOR	T SUMMARY - AIR	CRAFT)					

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2312	10761	BELL				TRANSCEIVER	FAILED		3/18/98
HEEA	45381	206L1			RT13	4000102000	COCKPIT		HEEA0013374
	NO 5 VOLTS OUT	OF POWER SUPPLY AN	D CHECK TONES FO	R PROPER OPERATIO	N.				
2562	513EH	BELL			NARCO	ELT	DEFECTIVE		3/4/98
HEEA	45421	206L1				ELT910	COCKPIT		HEEA0013272
	NARCO ELT BATT	TERY WEAK.							
2810	22751	BELL				FUEL CELL	CRACKED		3/18/98
HEEA	3627	206B3				206061661103	FUEL SYS		HEEA0013404
	EXCESSIVE CRAC	KS ON SEAMS AND SEI	EPAGE THROUGH FA	BRIC.					
3213	701MP	BELL				SADDLE	FAILED	5	2/20/98
	7221270	OH58A			058321300	601051001	HI SKID GEAR		98ZZZX1146
	WHILE GROUND I	HANDLING HELICOPTE	R, SKID EAR BROKE	OFF. EAR MIGHT BE	E HARDENED TOO M	MUCH CAUSING IT TO BE I	BRITTLE.		
3416	3207Q	BELL				ALT ENCODER	FAILED		3/18/98
HEEA	51540	206L3				A30	COCKPIT		HEEA0013386
	ENCODER HAS NO	O VALID OUTPUT.							
3421	42EA	BELL				ATTITUDE GYRO	FAILED		3/18/98
HEEA	51542	206L3				206075607103	COCKPIT		HEEA0013395
	ATTITUDE GYRO	PRECESSES AND WILL	NOT CAGE.						
3424	2251Z	BELL				INDICATOR	FAILED		3/18/98
HEEA	45756	206L1				A593002	COCKPIT T&B		HEEA0013396
	T&B INDICATOR	IS NOT WORKING.							
3424	6251V	BELL				INDICATOR	FAILED		3/18/98
HEEA	51404	206L3				206070274005	COCKPIT T&B		HEEA0013397
	INDICATOR "DEA	D" IS INOPERATIVE AN	ID NEEDS LIGHT.						
3453	513EH	BELL				ANTENNA	FAILED		3/18/98
HEEA	45421	206L1			KA83	071143100	LORAN		HEEA0013372
	LORAN HAS NO S	IGNAL WITH THIS ANT	ENNA. BAD FROM S	STOCK.					
6710	31801	BELL				ACTUATOR	FAILED		3/18/98
HEEA	51074	206L3				206062721109	M/R		HEEA0013407
	BEEP RANGE WIL	L NOT STAY AT MAX.	OR MIN. POSITION.						
3442	102PH	BELL				INDICATOR	FAILED		3/18/98
HEEA	30899	212			P40001	MI5852013	COCKPIT		HEEA0013361
						FIED, FOUND INTENSITY ED. BENCH CHECK GOOD		LSO FOUND Y	ELLOW DISPLAY
2432	8045T	BELL				CHARGER	FAILED		3/18/98
HEEA	28101	214ST				214175379103	BATTERY		HEEA0013401
	CHARGER INOPE	RATIVE. BATTERY NEV	ER SHOWS TOP CHA	ARGE.					

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2432	6957Y	BELL				CHARGER	FAILED		3/18/98
HEEA	28139	214ST				214175379103	BATTERY		HEEA0013400
	CHARGER WON'T	CHARGE BATTERY.							
2436	3897N	BELL				REGULATOR	FAILED		3/18/98
HEEA	28106	214ST				214175153105	GEN VOLTAGE		HEEA0013389
	NO GENERATOR O	OUTPUT. VOLTAGE REC	FAILED.						
2810	59806	BELL				FUEL CELL	LEAKING		3/18/98
HEEA	28140	214ST				214066255103	SEAMS		HEEA0013379
	FUEL CELL LEAKI	NG. DETERIORATED S	EAMS.						
2932	6957Y	BELL				PRESSURE SWITCH	FAILED		3/18/98
HEEA	28139	214ST				205076044009	HYD SYS		HEEA0013402
	PRESSURE SWITC	H FAILED							
6330	3897N	BELL				BEARING	SEPARATED		3/18/98
HEEA	28106	214ST				214031615105	CLEVIS ARM ASSY		HEEA0013380
	ELASTOMER BEAD	RING SEPARATED.							
7714	59806	BELL				PANEL ASY	FAILED		3/18/98
HEEA	28140	214ST				214175428101	ENGINE GAUGE		HEEA0013409
	ENGINE RPM WOF	RKS INTERMITTENTLY							
6300	230UN	BELL				BEARING	WORN		3/18/98
HEEA	23009	230			230030535101	230330509101	M/R DRIVE		HEEA0013368
	BEARINGS WORN	REPLACED WITH SER	VICEABLE PART.						
6300	230UN	BELL				BEARING	WORN		3/18/98
HEEA	23009	230			222331618105	222330619101	M/R DRIVE		HEEA0013369
	BEARINGS WORN	REPLACED WITH SER	VICEABLE PART.						
6300	230UN	BELL				BUSHING	DAMAGED		3/18/98
HEEA	23009	230			222010509105	20012403528	M/R DRIVE		HEEA0013370
	BUSHING DAMAG	ED. REPLACED WITH S	ERVICEABLE PART.						
6400	230UN	BELL				BEARING	DAMAGED		3/18/98
HEEA	23009	230				222312712001	T/R		HEEA0013363
	BEARING WORN A	ND DAMAGED. REPLA	CED WITH SERVICE	BLE PART.					
6400	230UN	BELL				BEARING	WORN		3/18/98
HEEA	23009	230			222012711107	222312751001	T/R CNTR WT		HEEA0013364
	BEARINGS WORN	REPLACED WITH SER	VICEABLE PART.						
6700	230UN	BELL				BEARING	ROUGH		3/18/98
HEEA	23009	230			222001383101	MS276475	FLT CONTROL		HEEA0013371
	BEARING ROUGH.	REPLACED WITH SER	VICEABLE PART.						

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6710	230UN	BELL				BEARING	WORN		3/18/98
HEEA	23009	230			222382001105	212010782101	M/R CONTROL		HEEA0013367
	BEARINGS WORN	. REPLACED WITH SER	RVICEABLE PART.						
6710	230UN	BELL				BEARING	WORN		3/18/98
HEEA	23009	230			222382001105	212010782101	M/R CONTROL		HEEA0013365
	BEARINGS WORN	. REPLACED WITH SER	RVICEABLE PART.						
6710	230UN	BELL				BEARING	WORN		3/18/98
HEEA	23009	230			222382001105	212010782101	M/R CONTROL		HEEA0013366
	BEARINGS WORN	. REPLACED WITH SER	RVICEABLE PART.						
2435	403PH	BELL				STARTER	FAILED	527	3/17/98
HEEA	53177	407				206062200113	ENG START/GEN		HEEA0013350
						OUND ALL FOUR BOTTOM ND RETURNED TO SERVIC		LEADS SEPA	ARATED FROM
3310	510PH	BELL				LIGHT ASSY	FAILED		3/17/98
HEEA	53209	407				900044	COCKPIT		HEEA0013356
	LIGHT STAYS ON								
6320	467PH	BELL				INDICATOR	FAILED	177	3/18/98
HEEA	53142	407				407375005101	XMSN OIL		HEEA0013410
	NO PRESSURE INI	DICATION POWER. XM	SN OIL TEMP/PRESS						
6320	510PH	BELL				PRESSURE SWITCH	FAILED	77	3/17/98
HEEA	53209	407				214040806003	TRANSMISSION		HEEA0013358
	TRANS. PRESS CA	UTION LIGHT WILL NO	OT ILLUMINATE.						
2120	3893P	BELL				SERVO	FAILED		3/18/98
HEEA	33012	412				212073927003	AIR DIST		HEEA0013375
	SERVO CONTROL	LER MOTORS RUNS CO	ONSTANTLY.						
2841	2298Z	BELL				INDICATOR	FAILED		3/18/98
HEEA	33077	412				393008047	FUEL QTY		HEEA0013362
	GAUGE DROPS TO	ZERO OR DOWN 1000	POUNDS FROM TIME	TO TIME. REPLACE	D WITH SERVICEAE	BLE PART.			
2841	23023	BELL				SWITCH	FAILED		3/18/98
HEEA	33080	412				384178103	FUEL SYS		HEEA0013383
	CAPACITANCE OF	JT OF TOLERANCE.							
2842	3893P	BELL				PROBE	FAILED		3/18/98
HEEA	33012	412				391046199	FUEL QTY		HEEA0013381
	PROBE WILL NOT	TEST.							
2842	2261D	BELL				TRANSMITTER	FAILED		3/18/98
HEEA	33076	412				2003600000102	FUEL QTY		HEEA0013387
	WILL NOT TRANS	MIT SIGNAL							

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2842	23023	BELL				PROBE	FAILED		3/18/98
HEEA	33080	412				391046200	FUEL QTY		HEEA0013382
	PROBE CAUSES IN	DICATOR TO RISE 200	LBS.						
3424	3893L	BELL				RATE GYRO	ERRATIC		3/18/98
HEEA	33006	412				214075244001	COCKPIT		HEEA0013392
	RATE GYRO ERRA	ATIC INDICATION.							
3424	6559Z	BELL				RATE GYRO	FAILED		3/18/98
HEEA	36019	412				214075244001	COCKPIT		HEEA0013393
	RATE GYRO INOP	ERATIVE.							
3452	6559Z	BELL				CONTROL	FAILED		3/18/98
HEEA	36019	412				071119218	COCKPIT		HEEA0013373
	TRANSPONDER D	OES NOT TEST PROPE	RLY AND NO LIGHTS	TO SHOW MODE IT	IS IN.				
6710	5759N	BELL				ACTUATOR ROTARY	BINDING		3/18/98
HEEA	33002	412				214001347005	M/R		HEEA0013398
	ROTARY ACTUAT	OR BINDING.							
6710	3893P	BELL				ACTUATOR ROTARY	FAILED		3/18/98
HEEA	33012	412				214001347005	M/R		HEEA0013388
	MAG BRAKE INTE	ERMITTENT AUTO TR	RIM NOT WORKING.						
6710	7128R	BELL				ACTUATOR ROTARY	FAILED		3/18/98
HEEA	36007	412				214001347005	CYCLIC		HEEA0013376
	SYSTEM CYLIC W	OULD NOT MOVE WHI	EN BEEPED.						
7210	2014K	BELL	PWA			COMBINING GRBOX	MAKING METAL	4357	3/18/98
HEEA	33020	412	PT6T3B			3024780	ENGINE		HEEA0013377
	COMBINING GEAR	R BOX MAKING METAI	J.						
7714	2261D	BELL				INDICATOR	STICKING		3/18/98
HEEA	33076	412				212075037101	ENGINE N1		HEEA0013403
	INDICATOR IS STI	CKING.							
7722	2261D	BELL				INDICATOR	FAILED		3/18/98
HEEA	33076	412				212075067109	ENG ITT		HEEA0013391
	WILL NOT INDICA	ATE.							
7722	2261D	BELL				INDICATOR	FAILED		3/18/98
HEEA	33076	412				212075067105	ENG ITT		HEEA0013390
	WILL NOT INDICA	ATE.							
7722	23023	BELL				TRIM COMPENSATOR	FAILED		3/18/98
HEEA	33080	412				3030083	ENG TRIM		HEEA0013394
	READS 80 DEGREE	ES TOO HIGH. ENGINE	TRIM COMPENSATO	R FAILED.					

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2612	CFHFW	BOEING			KIDDE	FIRE DETECTOR	MALFUNCTIONED	679	3/22/98
CHIR	107	1072				61423473275	NR 2 AFT UPPER		CHI2069
	DETECTOR FAILE	D, CAUSED NR 2 FIRE	LIGHT TO FALSELY I	LLUMINATE. DETEC	CTOR SENT TO MFG	FOR EVALUATION. THIS	DETECTOR IS PART OF STO	C SR00375SE	(X)
3416	967MB	BOLKMS				ALT ENCODER	FAILED		3/18/98
HEEA	S737	BO105S				A30	COCKPIT		HEEA0013385
	ALT ENCODER HA	AS NO VALID OUTPUT.							
7714	5421E	BOLKMS				TACH-GENERATOR	MALFUNCTION		3/17/98
HEEA	S806	BO105S				32005008	ENGINE		HEEA0013351
		STALLED IN AIRCRAFT FIND ANY PROBLEM		· · · · · · · · · · · · · · · · · · ·		RIPLE TACH INDICATOR. I ED TO SERVICE.	NSPECTED AND TESTED B	Y ACCESSO	RY OVERHAUL SHOP
7931	911EB	BOLKMS				INDICATOR	FAILED		3/18/98
HEEA	S812	BO105S				4011001	NR 2 ENG OIL		HEEA0013384
	NR2 ENGINE OIL I	PRESSURE HIGH AT 10	0%.						
7230	158BK	BOLKMS	LYC			SEAL	LEAKING		7/28/97
R7MA	7058	BK117A3	LTS101650B1			430404701	LT ENGINE NR 1		98ZZZX1149
	LEFT ENGINE NR	1 BEARING LEAKING I	BEYOND SERVICEAB	LE LIMITS. REPLACE	ED WITH NEW UNIT	, CORRECTED PROBLEM.			
7230	127HH	BOLKMS	LYC			SEAL	LEAKING	709	12/9/97
R7MA	7060	BK117A3	LTS101650B1			430150601	RT ENG NR 2		98ZZZX1148
	RIGHT ENGINE N	R 2 BEARING LEAKING	BEYOND SERVICEA	BLE LIMITS. REPLAC	CED WITH NEW UNI	T, CORRECTED PROBLEM.			
7230	424MB	BOLKMS	LYC			SEAL	LEAKED		7/24/97
R7MA	7082	BK117A3	LTS101650B1			430150601	LT ENG NR 2		98ZZZX1151
	LEFT ENGINE NR	2 BEARING SEAL, UPO	N INSTALLATION, U	NIT LEAKED BEYONI	D SERVICEABLE LIN	MITS. REPLACED WITH NE	W UNIT, CORRECTED PRO	BLEM.	
7230	911BY	BOLKMS	LYC			BEARING	PITTED	860	1/9/96
R7MA	7127	BK117A4	LTS101650B1			430124203	ENGINE COMPR		98ZZZX1160
	COMPRESSOR BE.	ARING HAS EXCESSIV	E PITTING. REPLACE	ED WITH NEW UNIT, O	CORRECTED PROBL	.EM.			
7230	911BY	BOLKMS	LYC			SEAL	LEAKING	763	1/9/96
R7MA	7127	BK117A4	LTS101650B1			430150601	RT ENG NR 2		98ZZZX1158
	RIGHT ENGINE N	R 2 BEARING SEAL LEA	AKING BEYOND SERV	VICEABLE LIMITS. R	EPLACED WITH NE	W UNIT, CORRECTED PRO	BLEM. ACTUAL P/N INSTA	LLED, 4-141	45-02, SN 390.
7230	586BH	BOLKMS	LYC			SEAL	LEAKING	378	11/18/97
R7MA	7129	BK117A4	LTS101650B1			430150601	LT ENG NR 2		98ZZZX1156
	LEFT ENGINE NR	2 BEARING LEAKING I	BEYOND SERVICEAB	LE LIMITS. ACTUAL	PART NUMBER INS	TALLED, 4-301-357-03. REF	LACED WITH NEW UNIT, O	CORRECTED	PROBLEM.
7230	586BH	BOLKMS	LYC			BEARING	WORN	378	11/18/97
R7MA	7129	BK117A4	LTS101650B1			430151801	LT ENGINE NR 2		98ZZZX1155
	LEFT ENGINE NR	2 BEARING HAS EXCE	SSIVE ROLLER WEAR	R. REPLACED WITH N	NEW UNIT, CORREC	TED PROBLEM.			
7250	158BK	BOLKMS	LYC			SEAL	LEAKING	260	7/28/97
R7MA	7058	BK117A3	LTS101650B1			430144801	LT ENG NR 3		98ZZZX1150
	LEFT ENGINE NR	3 BEARING LEAKING I	BEYOND SERVICEAB	LE LIMITS. REPLACI	ED WITH NEW UNIT	, CORRECTED PROBLEM.			

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7250	911BY	BOLKMS	LYC			SEAL	LEAKING	763	1/9/96
R7MA	7127	BK117A4	LTS101650B1			430144801	RT ENGINE NR 3		98ZZZX1159
	RIGHT ENGINE NI	R 5 BEARING SEAL LEA	KING BEYOND SERV	ICEABLE LIMITS. R	EPLACED WITH NE	W UNIT, CORRECTED PRO	BLEM.		
7250	586BH	BOLKMS	LYC			BEARING	PITTED	378	11/18/97
R7MA	7129	BK117A4	LTS101650B1			414144001	ENGINE NR 1		98ZZZX1157
	LEFT ENGINE BEA	ARING HAS EXCESSIVE	E PITTING. REPLACE	D WITH NEW UNIT, C	ORRECTED PROBLE	EM.			
7250	586BH	BOLKMS	LYC			ROTOR ASSY	SHIFT	756	8/22/97
R7MA	7129	BK117A4	LTS101650B1			414129001	PT BLADE		98ZZZX1153
	ENGINE FAILED S	SB LT101-72-10-0153. EX	CESSIVE IBPT BLAD	E SHIFT Q-ROTOR =	6.77 GMIN2. REPLA	CED WITH NEW UNIT, COI	RRECTED PROBLEM. PART	TC: 3,128.1	
7250	586BH	BOLKMS	LYC			BEARING	PITTED	756	8/22/97
R7MA	7129	BK117A4	LTS101650B1			430102301	RT ENGINE		98ZZZX1152
	RIGHT ENGINE BI	EARING HAS EXCESSIV	E PITTING. REPLAC	ED WITH NEW UNIT,	CORRECTED PROB	LEM.			
7712	586BH	BOLKMS				SHAFT	GROOVED	756	8/22/97
R7MA	7129	BK117A4				408104917	TORQUEMETER		98ZZZX1154
	TORQUE METER S	SHAFT UNIT EXCESSIV	ELY GROOVED. REP	LACED WITH NEW U	NIT, CORRECTED P	ROBLEM.			
6310	5695B	ENSTRM				STRUT BEARING	CRACKED	18	2/19/98
FSPA	1204	280C				ECD01413	M/R DRIVE		98ZZZX1111
		OTED THIS BEARING H.	AS A 600-HOUR LIFE				IS WAS THE SECOND BEARI HIS BEARING WAS ORIGINA		
7322	550JM	HUGHES	ALLSN		BENDIX	FUEL CONTROL	MALFUNCTIONED		2/23/98
	0013E	369E	250C20B		23057344	252464429	ENGINE		98ZZZX1147
	AGAIN, MADE IT		OUT AGAIN. REMO				AMED OUT DURING THE STA URTHER PROBLEMS. TIME		
7323	50AP	HUGHES	ALLSN		BENDIX	FLYWEIGHT BUSH	WORN		2/10/98
JP0M	1090585D	369D	250C20B		23057870	2539034	N2 GOVERNOR	1052	98ZZZX1026
		CED DROOP OF N2 RPM EPAIR STATION FOR RI				IEN N2 RPM WENT UP TO	104 PERCENT. ERRATIC OPE	RATION N	OTICED. RETURNED
6710	159RP	ROBSIN				SPRING ASSY	FAILED	199	3/12/98
	0342	R44			C5811	C0561	LATERAL TRIM		98ZZZX1164
****	TRIM MOTOR ARI REPLACEMENT S	M P/N C581-1 FROZEN (	ON SPRING SHAFT. S EARING IS STAKED I	UBMITTER STATED I NTO THE MOUNTING	HAD THIS UNIT FAII BBLOCK, YET THIS	LED IN-FLIGHT, LOSS OF C IS NOT THE CAUSE OF THI	NTING BLOCK AND DANGL ONTROL WOULD HAVE BE E AD. SUBMITTER RECOMM	EN POSSIB	LE. THE
6710	972SA	ROBSIN				SHAFT	WORN	63	1/22/98
	0394	R44				C5851	CYCLIC CONTROL		98ZZZX1115
****	LATERAL TRIM A REVEALED THE S	CTUATOR ASSEMBLY	SHAFT, PN C585-1, H. RAL TRIM ACTUATO	AD A STEP WORN IN R ASSEMBLY WAS R	IT WHICH ALLOWE	D THE TRIM ACTUATOR T	SING CYCLIC INPUT. INVES O JAM. THREE ADDITIONA OMMENDATIONS SUBMITTI	L AIRCRAI	FT INSPECTED

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2913	476X	SKRSKY			ABEX	PUMP	FAILED	2387	3/5/98
HEEA	760436	S76C				7665009808102	NR 1 HYD		98ZZZX1163
		AULIC SYSTEM PRESSUN). REF: S-76 IPC, CHA			PLATFORM WITHOU	T INCIDENT. MAINTENAI	NCE FOUND HYDRAULIC	PUMP FAILUI	RE (INTERNAL METAL
7810	5128	SKRSKY				EJECTOR	CRACKED		3/18/98
HEEA	760181	S76A				7630507003044	EXHAUST		HEEA0013378
	EXH EJECTOR CR	ACKED.							
3120	4055L	SNIAS				RELAY	FAILED		2/15/98
	2916	AS350B2				V23154C0721GB104	HOBBS METER		98ZZZX1116
22.40	RELAY IS INSERT CONDITIONING C AND MOUNT THE	ED IN A SOCKET WHIC CONDENSATION WILL A EM TO THE PANEL NEX	CH CONTRIBUTES TO AMOST CERTAINLY I	POOR CONTACT AN ORIP ON THE RELAY!	D THE POTENTIAL I	N EVALUATING THE FAIL FOR CORROSION. THE LO LD BE TO INSTALL HERME	CATION OF THE RELAYS ETICALLY SEALED RELAY	IS SUCH THA (S J2K-4730-10	T THE AIR 07P OR EQUIVALENT
3340	60951	SNIAS				POWER SUPPLY	FAILED	247	3/17/98
HEEA	2771	AS350B				356H2802	STROBE		HEEA0013354
		SUPPLY INOPERATIVE.							
3340	6097Z	SNIAS				POWER SUPPLY	FAILED		3/17/98
HEEA	2820	AS350B2				A490ATSDF1428	STROBE		HEEA0013353
	WILL NOT FIRE A	NTI-COLLISION LIGHT	•						
6210	6097Z	SNIAS				BLADE	CRACKED	3611	3/17/98
HEEA	2820	AS350B2				355A11002012	M/R		HEEA0013357
	M/R BLADE CRAC	CKED.							
6330	60951	SNIAS				BEARING	DAMAGED		3/17/98
HEEA	2771	AS350B				704A33633151	TRANSMISSION		HEEA0013352
	TRANSMISSION E	EARING OIL SOAKED.							
6330	6097Z	SNIAS				SPHERICAL STOP	WORN	1814	3/17/98
HEEA	2820	AS350B2				704A3363310951	TRANSMISSION		HEEA0013355
	SPHERICAL STOP	ASSY WORN. SERIAL	NUMBERS REMOVE	O ARE 10952, 10948, A	ND 10956.				
6410	60951	SNIAS				BEARING	SEPARATED	1233	3/17/98
HEEA	2771	AS350B			355A12004005	704A33633091	T/R BLADE		HEEA0013359
	LAMINATED BEA	RINGS SEPARATED.							
6410	4031L	SNIAS				BLADES	DAMAGED	509	3/18/98
HEEA	2907	AS350B2				355A12004008	T/R		HEEA0013406
	DAMAGE ON T/R	BLADES LEADING ED	GE NEAR ROOT IN AF	REA (F).					
(End of DC	OMESTIC SERVICE	DIFFICULTY REPOR	RT SUMMARY - HE	LICOPTERS)					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7210	2014K	BELL	PWA			COMBINING GRBOX	MAKING METAL	4357	3/18/98
HEEA	33020	412	PT6T3B			3024780	ENGINE		HEEA0013377
	COMBINING GEAL	R BOX MAKING METAI	J.						
7230	158BK	BOLKMS	LYC			SEAL	LEAKING		7/28/97
R7MA	7058	BK117A3	LTS101650B1			430404701	LT ENGINE NR 1		98ZZZX1149
	LEFT ENGINE NR	1 BEARING LEAKING E	BEYOND SERVICEAB	LE LIMITS. REPLACE	ED WITH NEW UNIT	, CORRECTED PROBLEM.			
7230	127HH	BOLKMS	LYC			SEAL	LEAKING	709	12/9/97
R7MA	7060	BK117A3	LTS101650B1			430150601	RT ENG NR 2		98ZZZX1148
	RIGHT ENGINE NI	R 2 BEARING LEAKING	BEYOND SERVICEA	BLE LIMITS. REPLAC	CED WITH NEW UNI	T, CORRECTED PROBLEM.			
7230	424MB	BOLKMS	LYC			SEAL	LEAKED		7/24/97
R7MA	7082	BK117A3	LTS101650B1			430150601	LT ENG NR 2		98ZZZX1151
	LEFT ENGINE NR	2 BEARING SEAL, UPO	N INSTALLATION, U	NIT LEAKED BEYONI	O SERVICEABLE LIN	MITS. REPLACED WITH NE	W UNIT, CORRECTED PRO	BLEM.	
7230	911BY	BOLKMS	LYC			BEARING	PITTED	860	1/9/96
R7MA	7127	BK117A4	LTS101650B1			430124203	ENGINE COMPR		98ZZZX1160
	COMPRESSOR BE	ARING HAS EXCESSIVI	E PITTING. REPLACE	ED WITH NEW UNIT, O	CORRECTED PROBL	EM.			
7230	911BY	BOLKMS	LYC			SEAL	LEAKING	763	1/9/96
R7MA	7127	BK117A4	LTS101650B1			430150601	RT ENG NR 2		98ZZZX1158
	RIGHT ENGINE NI	R 2 BEARING SEAL LEA	KING BEYOND SER	VICEABLE LIMITS. R	EPLACED WITH NEV	W UNIT, CORRECTED PROF	BLEM. ACTUAL P/N INSTA	LLED, 4-141	-45-02, SN 390.
7230	586BH	BOLKMS	LYC			SEAL	LEAKING	378	11/18/97
R7MA	7129	BK117A4	LTS101650B1			430150601	LT ENG NR 2		98ZZZX1156
	LEFT ENGINE NR	2 BEARING LEAKING E	BEYOND SERVICEAB	LE LIMITS. ACTUAL	PART NUMBER INS	TALLED, 4-301-357-03. REP	LACED WITH NEW UNIT,	CORRECTED	PROBLEM.
7230	586BH	BOLKMS	LYC			BEARING	WORN	378	11/18/97
R7MA	7129	BK117A4	LTS101650B1			430151801	LT ENGINE NR 2		98ZZZX1155
	LEFT ENGINE NR	2 BEARING HAS EXCES	SSIVE ROLLER WEAR	R. REPLACED WITH N	NEW UNIT, CORREC	TED PROBLEM.			
7250	158BK	BOLKMS	LYC			SEAL	LEAKING	260	7/28/97
R7MA	7058	BK117A3	LTS101650B1			430144801	LT ENG NR 3		98ZZZX1150
	LEFT ENGINE NR	3 BEARING LEAKING E	BEYOND SERVICEAB	LE LIMITS. REPLACE	ED WITH NEW UNIT	, CORRECTED PROBLEM.			
	EEF I ENOUGE IN					an	LEAUDIC	763	1/9/96
7250	911BY	BOLKMS	LYC			SEAL	LEAKING	703	
		BOLKMS BK117A4	LYC LTS101650B1			SEAL 430144801	RT ENGINE NR 3	703	98ZZZX1159
	911BY 7127	BK117A4	LTS101650B1	VICEABLE LIMITS. R	EPLACED WITH NEV		RT ENGINE NR 3	703	
R7MA	911BY 7127	BK117A4	LTS101650B1	VICEABLE LIMITS. R	EPLACED WITH NEV	430144801	RT ENGINE NR 3		
7250 R7MA 7250 R7MA	911BY 7127 RIGHT ENGINE NI	BK117A4 R 5 BEARING SEAL LEA	LTS101650B1 AKING BEYOND SER'	VICEABLE LIMITS. R	EPLACED WITH NE	430144801 W UNIT, CORRECTED PROB	RT ENGINE NR 3 BLEM.		98ZZZX1159
R7MA 7250	911BY 7127 RIGHT ENGINE NI 586BH 7129	BK117A4 R 5 BEARING SEAL LEA BOLKMS	LTS101650B1 AKING BEYOND SER LYC LTS101650B1			430144801 W UNIT, CORRECTED PROB BEARING 414144001	RT ENGINE NR 3 BLEM. PITTED		98ZZZX1159 11/18/97
R7MA 7250	911BY 7127 RIGHT ENGINE NI 586BH 7129	BK117A4 R 5 BEARING SEAL LEA BOLKMS BK117A4	LTS101650B1 AKING BEYOND SER LYC LTS101650B1			430144801 W UNIT, CORRECTED PROB BEARING 414144001	RT ENGINE NR 3 BLEM. PITTED	378	98ZZZX1159 11/18/97
R7MA 7250 R7MA	911BY 7127 RIGHT ENGINE NI 586BH 7129 LEFT ENGINE BEA	BK117A4 R 5 BEARING SEAL LEA BOLKMS BK117A4 ARING HAS EXCESSIVE	LTS101650B1 AKING BEYOND SER' LYC LTS101650B1 E PITTING. REPLACE			430144801 W UNIT, CORRECTED PROB BEARING 414144001 EM.	RT ENGINE NR 3 BLEM. PITTED ENGINE NR 1	378	98ZZZX1159 11/18/97 98ZZZX1157

OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7250	586BH	BOLKMS	LYC			BEARING	PITTED	756	8/22/97
R7MA	7129	BK117A4	LTS101650B1			430102301	RT ENGINE		98ZZZX1152
	RIGHT ENGINE BE	EARING HAS EXCESSIV	'E PITTING. REPLAC	ED WITH NEW UNIT,	CORRECTED PROB	LEM.			
7314	736XB	CESSNA	CONT			FUEL PUMP	DEFECTIVE	2000	3/1/98
	R1722860	R172K	IO360K			6467592	STOP PIN		98ZZZX1176
	PROBLEMS. AFTE		CTION FOUND THAT				E STIFF BUT WOULD MOVE MOVE IN AND OUT OF ITS F		
8530	99295	CESSNA	LYC			CYLINDER	FAILED	1620	12/13/97
	17276429	172P	O320D2J				NR 1		98ZZZX1127
		,			, -		APPLIED FULL POWER AND PISTON NICKED AND HEAL		O AND ON SHORT
7420	974SG	CESSNA	LYC		SLICK	HARNESS	DAMAGED	35	3/2/98
	18280083	182S	IO540*				ENGINE IGNITION		98ZZZX1104
7324	3246M	CESSNA	CONT	SINCE EERID TRIBED	WITH EXTINE EO	LINE	FAILED		2/1/98
7324	3246M	CESSNA	CONT			LINE	FAILED		2/1/98
	402C0294	402C	TSIO520UB			5200106101	FLOW DIVIDER		98ZZZX1125
	FUEL REF LINE FR	OM FLOW DIVIDER TO	) BAFFLE BROKE CA	USING A ROUGH RU	NNING ENGINE. AII	RCRAFT LANDED WITHOU	T INCIDENT.		
3550	39058	COM FLOW DIVIDER TO	) BAFFLE BROKE CA LYC	USING A ROUGH RU	NNING ENGINE. AII	LINE	T INCIDENT. BLOCKED		2/12/98
8550	39058 AA1C0206	GULSTM AA1C	LYC O235L2C			LINE MILH6000	BLOCKED OIL BREATHER		98ZZZX1142
8550	39058  AA1C0206  ENGINE BEGAN LI BLOCKED APPROINSTALLATION. S CRANKCASE CAN	GULSTM  AAIC EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME	LYC  O235L2C  DER THRU STUD LO  (AGE APPEARS TO BE  ENDED CHANGING A  NE PROPELLLER NO	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE	TIME, FUEL PRESSU NER HOSE MATERL VERY 5 YEARS ANI QUENT LOSS OF AL	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREA L ENGINE OIL. HIGHER TH	BLOCKED	E WAS OLD A PRESS BUILI	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE
	39058  AA1C0206  ENGINE BEGAN LI BLOCKED APPROINSTALLATION. S CRANKCASE CAN	GULSTM  AAIC EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME CAUSE LOSS OF ENGI	LYC  O235L2C  DER THRU STUD LO  (AGE APPEARS TO BE  ENDED CHANGING A  NE PROPELLLER NO	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE	TIME, FUEL PRESSU NER HOSE MATERL VERY 5 YEARS ANI QUENT LOSS OF AL	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREA L ENGINE OIL. HIGHER TH	BLOCKED OIL BREATHER DS. FOUND BREATHER LI ACFT MFG'D IN 1978. HOS: THER HOSE AT ANNUAL.	E WAS OLD A PRESS BUILI	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE
	39058  AA1C0206  ENGINE BEGAN LI BLOCKED APPROZINSTALLATION. S CRANKCASE CAN CARBURATED EN	GULSTM  AA1C  EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME CAUSE LOSS OF ENGI GINE. POOR CRANKC	LYC O235L2C DER THRU STUD LO CAGE APPEARS TO BI ENDED CHANGING A NE PROPELLLER NO: ASE BREATHING CAI	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE	TIME, FUEL PRESSU NER HOSE MATERI VERY 5 YEARS ANI QUENT LOSS OF AL E TO ACCELERATEI	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREA L ENGINE OIL. HIGHER THE D CORROSION.	BLOCKED OIL BREATHER DS. FOUND BREATHER LI ACFT MFG'D IN 1978. HOS: THER HOSE AT ANNUAL. HAN NORMAL FUEL PRESS	E WAS OLD A PRESS BUILI	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE USE FLOODING OF
	39058  AA1C0206  ENGINE BEGAN LI BLOCKED APPROINSTALLATION. S CRANKCASE CAN CARBURATED EN  550JM 0013E  ENGINE STILL HA AGAIN, MADE IT T	GULSTM  AAIC  EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME CAUSE LOSS OF ENGI GINE. POOR CRANKCA  HUGHES 369E  VING DELAYED STAR	LYC O235L2C DER THRU STUD LO TAGE APPEARS TO BE ENDED CHANGING A NE PROPELLLER NO TASE BREATHING CAI ALLSN 250C20B TS. ENGINE FLAMEI OUT AGAIN. REMO	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE N ALSO CONTRIBUTE	TIME, FUEL PRESSUNER HOSE MATERI. VERY 5 YEARS ANI QUENT LOSS OF ALE TO ACCELERATED BENDIX 23057344 FARTED WITH THE	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREA L ENGINE OIL. HIGHER TH D CORROSION.  FUEL CONTROL 252464429  START PUMP ON, AND FLA	BLOCKED OIL BREATHER DS. FOUND BREATHER LI ACFT MFG'D IN 1978. HOS: THER HOSE AT ANNUAL. HAN NORMAL FUEL PRESS MALFUNCTIONED	E WAS OLD A PRESS BUILI URE CAN CA	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE LUSE FLOODING OF  2/23/98 98ZZZX1147 ENCE. RESTARTED
7322	39058  AA1C0206  ENGINE BEGAN LI BLOCKED APPROINSTALLATION. S CRANKCASE CAN CARBURATED EN  550JM 0013E  ENGINE STILL HA AGAIN, MADE IT T	GULSTM  AAIC  EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME CAUSE LOSS OF ENGI GINE. POOR CRANKCA  HUGHES 369E  VING DELAYED STAR' TO IDLE, BUT FLAMED	LYC O235L2C DER THRU STUD LO TAGE APPEARS TO BE ENDED CHANGING A NE PROPELLLER NO TASE BREATHING CAI ALLSN 250C20B TS. ENGINE FLAMEI OUT AGAIN. REMO	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE N ALSO CONTRIBUTE	TIME, FUEL PRESSUNER HOSE MATERI. VERY 5 YEARS ANI QUENT LOSS OF ALE TO ACCELERATED BENDIX 23057344 FARTED WITH THE	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREA L ENGINE OIL. HIGHER TH D CORROSION.  FUEL CONTROL 252464429  START PUMP ON, AND FLA	BLOCKED OIL BREATHER DS. FOUND BREATHER LI ACFT MFG'D IN 1978. HOS: THER HOSE AT ANNUAL. HAN NORMAL FUEL PRESS MALFUNCTIONED ENGINE AMED OUT DURING THE ST	E WAS OLD A PRESS BUILI URE CAN CA	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE ,USE FLOODING OF  2/23/98 98ZZZX1147 ENCE. RESTARTED
7322 7323 JP0M	39058  AA1C0206  ENGINE BEGAN LI BLOCKED APPROZINSTALLATION. S CRANKCASE CAN CARBURATED EN  550JM  0013E  ENGINE STILL HA AGAIN, MADE IT T WAS 1237.5 HOURS	GULSTM  AAIC  EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME CAUSE LOSS OF ENGI GINE. POOR CRANKCA  HUGHES 369E  VING DELAYED STAR' TO IDLE, BUT FLAMED S TSO, AND 31.6 HOUR.	LYC  O235L2C  DER THRU STUD LO LAGE APPEARS TO BE ENDED CHANGING A NE PROPELLLER NOS ASE BREATHING CAI  ALLSN  250C20B  TS. ENGINE FLAMEI OUT AGAIN. REMO S SINCE REPAIR.	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE N ALSO CONTRIBUTE	TIME, FUEL PRESSUNER HOSE MATERL VERY 5 YEARS ANI QUENT LOSS OF AL E TO ACCELERATEL BENDIX 23057344 FARTED WITH THE F	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREA L ENGINE OIL. HIGHER TH D CORROSION.  FUEL CONTROL 252464429  START PUMP ON, AND FLA ED A DASH 28 UNIT. NO F	BLOCKED OIL BREATHER IDS. FOUND BREATHER LI ACFT MFG'D IN 1978. HOS: THER HOSE AT ANNUAL. HAN NORMAL FUEL PRESS MALFUNCTIONED ENGINE AMED OUT DURING THE S' URTHER PROBLEMS. TIME	E WAS OLD A PRESS BUILI URE CAN CA	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE LUSE FLOODING OF  2/23/98 98ZZZX1147 ENCE. RESTARTED ONTROL SN 310785
7322	39058 AA1C0206 ENGINE BEGAN LI BLOCKED APPROZINSTALLATION. S CRANKCASE CAN CARBURATED EN 550JM 0013E ENGINE STILL HA AGAIN, MADE IT T WAS 1237.5 HOUR: 50AP 1090585D PILOT EXPERIENCE	GULSTM AA1C EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME CAUSE LOSS OF ENGIL GINE. POOR CRANKCA HUGHES 369E VING DELAYED STAR' TO IDLE, BUT FLAMED S TSO, AND 31.6 HOUR. HUGHES 369D	LYC O235L2C DER THRU STUD LO CAGE APPEARS TO BE ENDED CHANGING A NE PROPELLLER NO CASE BREATHING CAI ALLSN 250C20B TS. ENGINE FLAMER OUT AGAIN. REMO S SINCE REPAIR.  ALLSN 250C20B I (ROTOR) TO 100 PEI	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE N ALSO CONTRIBUTE D OUT AT IDLE. REST VED THE FUEL CONT	TIME, FUEL PRESSUNER HOSE MATERIA VERY 5 YEARS AND QUENT LOSS OF AL E TO ACCELERATED BENDIX 23057344 FARTED WITH THE FOOL AND INSTALL BENDIX 23057870 FO 102 PERCENT, TH	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREAL L ENGINE OIL. HIGHER THE D CORROSION.  FUEL CONTROL 252464429  START PUMP ON, AND FLA ED A DASH 28 UNIT. NO F	BLOCKED OIL BREATHER IDS. FOUND BREATHER LI ACFT MFG'D IN 1978. HOS: THER HOSE AT ANNUAL. HAN NORMAL FUEL PRESS MALFUNCTIONED ENGINE AMED OUT DURING THE ST URTHER PROBLEMS. TIME	E WAS OLD A PRESS BUILI URE CAN CA  FART SEQUE E ON FUEL C	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE .USE FLOODING OF 2/23/98 98ZZZX1147 ENCE. RESTARTED ONTROL SN 310785 2/10/98 98ZZZX1026
7322	39058 AA1C0206 ENGINE BEGAN LI BLOCKED APPROZINSTALLATION. S CRANKCASE CAN CARBURATED EN 550JM 0013E ENGINE STILL HA AGAIN, MADE IT T WAS 1237.5 HOUR: 50AP 1090585D PILOT EXPERIENCE	GULSTM AA1C EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME CAUSE LOSS OF ENGI GINE. POOR CRANKCA HUGHES 369E VING DELAYED STAR' TO IDLE, BUT FLAMED S TSO, AND 31.6 HOUR: HUGHES 369D CED DROOP OF N2 RPM	LYC O235L2C DER THRU STUD LO CAGE APPEARS TO BE ENDED CHANGING A NE PROPELLLER NO CASE BREATHING CAI ALLSN 250C20B TS. ENGINE FLAMER OUT AGAIN. REMO S SINCE REPAIR.  ALLSN 250C20B I (ROTOR) TO 100 PEI	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE N ALSO CONTRIBUTE D OUT AT IDLE. REST VED THE FUEL CONT	TIME, FUEL PRESSUNER HOSE MATERIA VERY 5 YEARS AND QUENT LOSS OF AL E TO ACCELERATED BENDIX 23057344 FARTED WITH THE FOOL AND INSTALL BENDIX 23057870 FO 102 PERCENT, TH	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREAL L ENGINE OIL. HIGHER THE D CORROSION.  FUEL CONTROL 252464429  START PUMP ON, AND FLA ED A DASH 28 UNIT. NO F	BLOCKED OIL BREATHER IDS. FOUND BREATHER LI ACFT MFG'D IN 1978. HOS: THER HOSE AT ANNUAL. HAN NORMAL FUEL PRESS MALFUNCTIONED ENGINE AMED OUT DURING THE ST URTHER PROBLEMS. TIME WORN N2 GOVERNOR	E WAS OLD A PRESS BUILI URE CAN CA  FART SEQUE E ON FUEL C	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE .USE FLOODING OF 2/23/98 98ZZZX1147 ENCE. RESTARTED ONTROL SN 310785 2/10/98 98ZZZX1026
7322 7323 IPOM	39058 AA1C0206 ENGINE BEGAN LI BLOCKED APPROZINSTALLATION. S CRANKCASE CAN CARBURATED EN 550JM 0013E ENGINE STILL HA AGAIN, MADE IT T WAS 1237.5 HOUR: 50AP 1090585D PILOT EXPERIENCE GOVERNOR TO RE	GULSTM  AAIC  EAKING OIL AT CYLIN X 95 PERCENT. BLOCK SUBMITTER RECOMME CAUSE LOSS OF ENGING GINE. POOR CRANKCA HUGHES 369E  VING DELAYED STAR TO IDLE, BUT FLAMED S TSO, AND 31.6 HOUR: HUGHES 369D CED DROOP OF N2 RPM EPAIR STATION FOR RI	LYC O235L2C DER THRU STUD LO LAGE APPEARS TO BE ENDED CHANGING A NE PROPELLLER NOS ASE BREATHING CAI ALLSN 250C20B TS. ENGINE FLAMEI OUT AGAIN. REMO S SINCE REPAIR. ALLSN 250C20B I (ROTOR) TO 100 PEI EPAIR AND REINSTA	CATIONS. AT SAME E DETERIORATED IN LL RUBBER HOSES E SE SEAL AND SUBSE N ALSO CONTRIBUTE D OUT AT IDLE. REST VED THE FUEL CONT	TIME, FUEL PRESSUNER HOSE MATERIA VERY 5 YEARS AND QUENT LOSS OF AL E TO ACCELERATED BENDIX 23057344 FARTED WITH THE FOOL AND INSTALL BENDIX 23057870 FO 102 PERCENT, TH	LINE MILH6000  JRE ROSE APPROX 2 POUN AL. HOSE MFG'D IN 1973. D INSPECTING ID OF BREAL L ENGINE OIL. HIGHER THE D CORROSION.  FUEL CONTROL 252464429  START PUMP ON, AND FLA ED A DASH 28 UNIT. NO F  FLYWEIGHT BUSH 2539034  HEN N2 RPM WENT UP TO	BLOCKED OIL BREATHER IDS. FOUND BREATHER LI ACFT MFG'D IN 1978. HOS: THER HOSE AT ANNUAL. HAN NORMAL FUEL PRESS MALFUNCTIONED ENGINE AMED OUT DURING THE ST URTHER PROBLEMS. TIMI WORN N2 GOVERNOR	E WAS OLD A PRESS BUILI URE CAN CA  FART SEQUE E ON FUEL C	98ZZZX1142 00, .75 INCH TUBE, AT TIME OF D-UP IN THE .USE FLOODING OF  2/23/98 98ZZZX1147 ENCE. RESTARTED ONTROL SN 310785  2/10/98 98ZZZX1026 OTICED. RETURNEI

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
7314	37AT	PIPER	LYC			PUMP	LEAKING	17	3/10/98
ODAR	4636135	PA46350P	TIO540AE2A			RG9080J4A	ENGINE FUEL		98ZZZX1131
	BOOKS INDICATE		NG THE CAP AND SE	AL IN PLACE HAD B	EEN TORQUED IAW	ENGINE DRIVEN FUEL P LYCOMING SB 529. ALL			

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2312	10761	BELL				TRANSCEIVER	FAILED		3/18/98
HEEA	45381	206L1			RT13	4000102000	COCKPIT		HEEA0013374
	NO 5 VOLTS OUT	OF POWER SUPPLY AN	D CHECK TONES FO	R PROPER OPERATIO	N.				
2562	513EH	BELL			NARCO	ELT	DEFECTIVE		3/4/98
HEEA	45421	206L1				ELT910	COCKPIT		HEEA0013272
	NARCO ELT BATT	ERY WEAK.							
3416	3207Q	BELL				ALT ENCODER	FAILED		3/18/98
HEEA	51540	206L3				A30	COCKPIT		HEEA0013386
	ENCODER HAS NO	VALID OUTPUT.							
3421	42EA	BELL				ATTITUDE GYRO	FAILED		3/18/98
HEEA	51542	206L3				206075607103	COCKPIT		HEEA0013395
	ATTITUDE GYRO	PRECESSES AND WILL	NOT CAGE.						
3424	2251Z	BELL				INDICATOR	FAILED		3/18/98
HEEA	45756	206L1				A593002	COCKPIT T&B		HEEA0013396
	T&B INDICATOR I	S NOT WORKING.							
3424	6251V	BELL				INDICATOR	FAILED		3/18/98
HEEA	51404	206L3				206070274005	COCKPIT T&B		HEEA0013397
	INDICATOR "DEAL	D" IS INOPERATIVE AN	ID NEEDS LIGHT.						
3453	513EH	BELL				ANTENNA	FAILED		3/18/98
HEEA	45421	206L1			KA83	071143100	LORAN		HEEA0013372
	LORAN HAS NO SI	GNAL WITH THIS ANT	ENNA. BAD FROM S	TOCK.					
3442	102PH	BELL				INDICATOR	FAILED		3/18/98
HEEA	30899	212			P40001	MI5852013	COCKPIT		HEEA0013361
						IFIED, FOUND INTENSITY ED. BENCH CHECK GOOI	KNOB TURNED DOWN, AID.	LSO FOUND Y	YELLOW DISPLAY
3424	3893L	BELL				RATE GYRO	ERRATIC		3/18/98
HEEA	33006	412				214075244001	COCKPIT		HEEA0013392
	RATE GYRO ERRA	ATIC INDICATION.							
3424	6559Z	BELL				RATE GYRO	FAILED		3/18/98
HEEA	36019	412				214075244001	COCKPIT		HEEA0013393
	RATE GYRO INOP	ERATIVE.							
3452	6559Z	BELL				CONTROL	FAILED		3/18/98
HEEA	36019	412				071119218	COCKPIT		HEEA0013373
	TRANSPONDER D	OES NOT TEST PROPER	RLY AND NO LIGHTS	TO SHOW MODE IT	IS IN.				
3416	967MB	BOLKMS				ALT ENCODER	FAILED		3/18/98
HEEA	S737	BO105S				A30	COCKPIT		HEEA0013385
	ALT ENCODER HA	S NO VALID OUTPUT.							

DOMEST	SOMESTIC SERVICE DITTICOLT TREE ORT SOMESTIC CONT.								
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2562	5532H	PIPER				ELT	FAILED		12/31/97
	111035	PA11				EBC102A	COCKPIT		98ZZZX1179
	THE ELT DID NOT	ACTIVATE ON IMPACT	Γ. IT DID TEST USING	G AN AM RADIO AFT	ER TURNING ON MA	ANUALLY. THE DATE ON	THE BATTERY WAS DUE	DECEMBER,	1993.
6113	22JL	PIPER		HARTZL		BULKHEAD	CRACKED		3/18/98
WIWR	347250198	PA34200		HCC2YK2		453978	PROPELLER		98ZZZX1180
	PROP SPINNER BU USED OTHER THA	LKHEAD MOUNTING I N CALLED FOR, IT WIL	BOLT HOLES. SUSPE L RESULT IN PRELO	CT REASON FOR PRI ADING SPINNER BUI	EMATURE FAILURE LKHEAD TO ENGINE	CTION COMPLETED WITH I IS WRONG LENGTH OF SC E DAMPENER DYNAMIC BA ENETRANT FOR INSPECTI	CREW USED ON SPINNER. ALANCER) WHERE IT BOT	IF NEXT SIZ TOMS OUT.	E LONGER SCREW IS RECOMMEND
3120	4055L	SNIAS				RELAY	FAILED		2/15/98
	2916	AS350B2				V23154C0721GB104	HOBBS METER		98ZZZX1116
	THE RELAY WAS I RELAY IS INSERTI CONDITIONING CO	HALF FILLED WITH WA ED IN A SOCKET WHIC	ATER AND THE PINS I H CONTRIBUTES TO MOST CERTAINLY D	IN THE SOCKET HAD POOR CONTACT AN PRIP ON THE RELAYS	RUSTED OFF. UPO D THE POTENTIAL F	TER REVEALED THERE WAN EVALUATING THE FAILFOR CORROSION. THE LOOLD BE TO INSTALL HERME	URE NOTED THE RELAYS CATION OF THE RELAYS I	ARE NOT SE S SUCH THA	EALED, AND EACH AT THE AIR

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS)

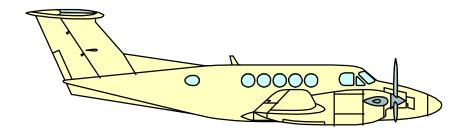
# **DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS**

3/22/98 - 3/28/98 ISSUE: 98-13 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114	6624C	CESSNA		MCAULY		HUB	CRACKED		2/27/98
	414A0034	414A		3AF32C93		C93	NR 2 SOCKET		98ZZZX1130
	AFTER TEAR-DOV	VN, A CRACK WAS FOU	ND IN NR 2 BLADE S	OCKET ON THE ENG	INE SIDE.				
(End of DO	MESTIC SERVICE	DIFFICULTY REPOR	Γ SUMMARY - PRO	PELLERS)					



# INTERNATIONAL SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3210		AMTRMX	AMTR			LANDING GEAR	DAMAGED		1/20/98
		XP503	582				MAIN LANDING GEA		AU980098
	( /	HIT FENCE WHEN CONFOR INFORMATION ON		LANDING. DAMAGE	CAUSED TO LANDI	ING GEAR, NOSE POD AND	LOWER FUEL TANK. THIS D	EFECT WA	AS RECEIVED FROM
5730		BEECH	CONT	MCAULY	BEECH	COVER	SEPARATED		1/19/98
		58	IO520C	3AF34C502	585301565	58530158	WING SPAR		AU980061
	(AUS) LH SPAR CO	OVER SEPARATED AND	JAMMED BETWEEN	N LANDING GEAR MIC	CROSWITCHES.				
2430		BEECH	PWA			ELECT POWER	LOSS	679	5/6/93
		65A90	PT6A20				DC SYS		CA930527205
	` '					F ELECTRICAL POWER. PII NABLE TO DETERMINE CA	LOT UNABLE TO RESTORE A USE.	NY SYSTE	EM WITH GENERATO
5711		BNORM	LYC	HARTZL		WEB	CRACKED		1/28/98
		BN2A26	O540E4C5	HCC2YK2			LT WING SPAR		AU980071
	(AUS) LH WING SI	AR WEB CRACKED BE	EYOND LIMITS.						
711		BNORM	LYC	HARTZL		WEB	CRACKED		1/29/98
		BN2A26	O540E4C5	HCC2YK2			RT WING SPAR		AU980072
	(AUS) LH AND RH	SPAR WEBS CRACKED	BEYOND LIMITS.						
910		CESSNA	CONT	MCAULY		HOSE	DETERIORATED		1/22/98
		402C	TSIO520VB	3AF32C505		AE1003757G0310	HYDRAULIC MAIN		AU980069
	LANDED WITH GE	EAR UP. INVESTIGATIO	ON FOUND THAT THE	E HOSE FAILED DUE	TO EXPOSURE TO H		NDING GEAR WOULD NOT E /ING AND THE OUTER HOSE		
2910		CESSNA	CONT	MCAULY	CESSNA	PIPE	CORRODED		1/30/98
		402C	TSIO520VB	3AF32C505	402C	520010789	HYD MAIN		AU980091
	(AUS) RH MAIN LA DUCTING INSULA		CTION SYSTEM HYD	RAULIC PIPE LOCAT	ED IN AREA BELOW	THE RH FLOOR CONTAIN	ED PITTING CORROSION. SU	SPECT DU	JETO CONTACT WITH
2435		DHAV	PWA		LUCAS	BEARING	UNAPPROVED		12/18/97
		DHC6300	PT6A27		23048004	9204SSX10	START/GEN	987	CA971231025
****	( - )	D BE USED. THERE WA	AS ALSO A BRASS SI	HIM BETWEEN THE D	RIVE SHAFT AND T		IANUFACTURED BY BARDE NG THE HUB TO SIT LOWER		
	ALSO AN UNAPPR	OVED FRACTICE. IN A					THE PARTY OF THE P		12/12/97
3320	ALSO AN UNAPPR	DHAV	PWA			CIRCUIT BREAKER	FUSED		
3320	ALSO AN UNAPPR		PWA PT6A20			CIRCUIT BREAKER D727185	FUSED COCKPIT OVERHEAD		CA971231030
3320	(CAN) WHEN GRO HAND CABIN LIG SOCKET WAS SHO	DHAV DHC6100 UND POWER APPLIED HTS DIM WAS FOUND	PT6A20 , AND CABIN LIGHTS COMPLETELY BURN PROBLEM. SEVERAL	T. THE 5 AMP CIRCU SOCKETS WERE REF	IT BREAKER WAS F PLACED BECAUSE C	D727185 D COMING FROM THE OVEI USED IN THE CLOSED POS		RIP AND	RING FOR THE LEFT THE FIRST DIM LIGH
3320	(CAN) WHEN GRO HAND CABIN LIG SOCKET WAS SHO	DHAV DHC6100 UND POWER APPLIED, HTS DIM WAS FOUND ORTED CAUSING THE F	PT6A20 , AND CABIN LIGHTS COMPLETELY BURN PROBLEM. SEVERAL	T. THE 5 AMP CIRCU SOCKETS WERE REF	IT BREAKER WAS F PLACED BECAUSE C	D727185 D COMING FROM THE OVEI USED IN THE CLOSED POS	COCKPIT OVERHEAD RHEAD CIRCUIT BREAKER P. ITION. THE CB COULD NOT 1	RIP AND	RING FOR THE LEFT THE FIRST DIM LIGH
	(CAN) WHEN GRO HAND CABIN LIG SOCKET WAS SHO	DHAV  DHC6100  UND POWER APPLIED, HTS DIM WAS FOUND  ORTED CAUSING THE F  AVE BEEN CAUSED BY	PT6A20 , AND CABIN LIGHTS COMPLETELY BURN PROBLEM. SEVERAL / REPEATED RESETI	IT. THE 5 AMP CIRCU SOCKETS WERE REF TING OF IT IN-FLIGHT	IT BREAKER WAS F PLACED BECAUSE C	D727185 D COMING FROM THE OVEI USED IN THE CLOSED POS OF CORROSION AND BAD C	COCKPIT OVERHEAD RHEAD CIRCUIT BREAKER P ITION. THE CB COULD NOT T ONNECTIONS. SUBMITTER S	RIP AND	RING FOR THE LEFT THE FIRST DIM LIGH 5 THAT THE CB

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5711		GULSTM	LYC	HARTZL		STRAP	CRACKED		1/3/98
		500B	IO540E1B5	HCA3VK4			WING SPAR STRUCT		AU980081
	(AUS) LH WING U	PPER SPAR STRAP CRA	CKED. RH WING LO	WER SPAR STRAP AL	SO CRACKED. FOU	ND DURING INSPECTION I	AW SB 223.		
2731		PIPER		HARTZL		ACTUATOR	WORN		2/5/98
		PA31350		HCE3YR2		17088000	ELEVATOR TAB CON		AU980103
	(AUS) ELEVATOR UNAPPROVED PA		RN. ILLEGAL METAL	SHIM INSTALLED B	ETWEEN THE ACTU	ATOR DRUM AND THE DR	RUM HOUSING. PERSONNEL/I	MAINTENA	ANCE ERROR.
2842		PIPER	LYC	HARTZL		TRANSMITTER	DEFECTIVE		1/15/98
		PA31	TIO540A2B	HCE3YR2		4064802030405	FUEL QUANTITY		AU980082
	(AUS) FIVE OUT O	OF EIGHT FUEL QUANT	TY TRANSMITTERS	WERE FAULTY WITH	H RESISTANCE VAL	UES OUT OF LIMITS.			
3210		PIPER		HARTZL		LANDING GEAR	WORN		2/5/98
		PA31350		HCE3YR2			LANDING GEAR SYS		AU980106
	(AUS) LH, RH ANI AND PLAY.	O NOSE LANDING GEAF	R TRUNNIONS, LINKS	S, ROD AND ACTUAT	OR BEARINGS AND	BUSHINGS WORN BEYON	D LIMITS. ALL LANDING GE.	ARS HAVE	EXCESSIVE WEAR
3222		PIPER		HARTZL		PISTON	WORN		2/5/98
		PA31350		HCE3YR2		4533303	NLG OLEO		AU980100
	(AUS) NOSE LANI	OING GEAR OLEO PISTO	ON CHROME PLATIN	G WORN. SIZE OF WO	ORN AREA APPROX	IMATELY 50.8MM (2IN) IN	DIAMETER.		
3222		PIPER		HARTZL		TRUNNION	DAMAGED		2/5/98
		PA31350		HCE3YR2		40273000	NOSE GEAR		AU980099
	(AUS) NOSE LANI	DING GEAR TRUNNION	DEFORMED IN ARE	A OF NOSE WHEEL S	TEERING LOCK/STO	OP. CRACKING STARTING	TO DEVELOP ON THE INSIDE	EDGE OF	THE STOP.
3233		PIPER		HARTZL	WIEBEL	ACTUATOR	BROKEN		2/5/98
		PA31350		HCE3YR2	21151	757499	MLG ACTUATOR		AU980102
	'	DING GEAR ACTUATOR LOCKING NUT NOT LO					HE PLAIN NUT REPLACED W	ТН А МЕТ	ALLOCKNUT AND
3252		PIPER		HARTZL		DAMPER	CORRODED		2/5/98
		PA31350		HCE3YR2		2170105	SHIMMY DAMPER		AU980101
	(AUS) NOSE LANI	DING GEAR SHIMMY DA	AMPER PISTON COR	RODED AND CHROM	E PLATING RUSTED	OFF. SHIMMY DAMPER A	LSO LOW ON OIL.		
5280		PIPER		HARTZL		DOOR	CRACKED		2/5/98
		PA31350		HCE3YR2		475293031	RT MLG		AU980109
	(AUS) LH AND RH	I MAIN LANDING GEAR	FLIPPER DOORS EX	TENSIVELY CRACKE	ED.DOORS HAD BEE	N PREVIOUSLY REPAIRED	).		
5311		PIPER		HARTZL		FRAME	CRACKED		2/5/98
		PA31350		HCE3YR2		4105008	DOOR SUPPORT		AU980108
	'	OR HINGE SUPPORT FRA LE AND TURNBARREL			ND FLOOR SKIN TO	CRACK. SUSPECT CAUSE	D BY ILLEGAL USE OF CHAIN	NS FORTHE	E DOOR SUPPORT
5320		PIPER		HARTZL		FRAME	CRACKED		2/5/98
		PA31350		HCE3YR2		43179001	RUD TORQ TUBE MT		AU980105
	(AUS) RUDDER PI	EDAL TORQUE TUBE CI	ENTRE MOUNT SEPA	RATED FROM THE C	ENTRE CONSOLE A	SSEMBLY.			

<u>INTERN</u> A	ATIONAL SERVIC	E DIFFICULTY RE	PORT SUMMARY	7 - AIRCRAFT (c	ont'd)		3/22/98 To 3/28/9	8 IS:	SUE: 98-13 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5510		PIPER		HARTZL	PIPER	HINGE	CRACKED		1/5/98
		PA31350		HCE3YR2	40155	42235	HORIZONTAL STAB		AU980084
	(AUS) HORIZONTA	AL STABILISER OUTBO	ARD HINGE BRACKE	TS CRACKED.					
5523		PIPER		HARTZL	PIPER	BRACKET	CRACKED		1/23/98
		PA31350		HCE3YR2	4042009	4042010	ELEV TAB HINGE		AU980085
	(AUS) ELEVATOR	TRIM TAB HINGE BRA	CKETS PNO 4042-010,	PNO 4042-009 AND I	PNO 4042-008 CRACK	ED.			
5710		PIPER		HARTZL		FRAME	CRACKED		2/5/98
		PA31350		HCE3YR2		454490809	LT RT WING		AU980107
	(AUS) LH AND RH	WING ARCH FRAMES	CONTAIN NUMEROU	S CRACKS. LONGES	T CRACK IS MORE TI	HAN 127MM (5IN) IN LENC	TH. CAUSED BY CONTACT WIT	ΓH BRA	KE CYLINDERS.
5751		PIPER		HARTZL		BEARING	WORN		2/5/98
		PA31350		HCE3YR2		452386	LT RT AIL HINGE		AU980111
	(AUS) LH AND RH	AILERON HINGE BEAF	RINGS WORN.						
5753		PIPER		HARTZL		FLAP	CORRODED		2/5/98
		PA31350		HCE3YR2		4018543	TE FLAP STRUCTUR		AU980104
	(AUS) RH FLAP LE	ADING EDGE SKIN SEI	PARATED OVER A LE	NGTH OF 203.2MM(8	IN) IN AREA BEHIND	ENGINE DUE TO CORRO	SION AND RIVET FAILURE.		
8120		PIPER	LYC	HARTZL		BLANKET	BURNT		2/5/98
		PA31350	TIO540J2BD	HCE3YR2		452939	LT RT EXH TURBO		AU980110

(AUS) LH AND RH ENGINE TURBOCHARGER INSULATION BLANKETS DETERIORATED AND BURNT.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
6330		AEROSP	ALLSN			SUSPENSION BAR	DEBONDED	456	10/25/97		
		AS355F1	250C20F		355A32060001	355A38004004	BEARING		CA971110017		
	(CAN) ON DAILY INSPECTION IT WAS NOTED THAT RIGHT SIDE TRANSMISSION FORWARD SUSPENSION BAR AND THE AFT RIGHT SIDE SUSPENSION BAR LOWER BEARIN BECOME DEBONDED FROM THE METAL BAR.										
2121		BELL	ALLSN		DYNAMICAIR	BLOWER	VIBRATING		11/12/97		
		206B	250C20B			C241500E	CABIN	4	CA971216042		
	(CAN) CASEY BLC	OWER MOTOR HAD EXC	CESSIVE VIBRATION	AFTER OVERHAUL.							
040		BELL	ALLSN			BLOWER	FAILED		9/16/97		
		206B	250C20			2060704755	DEFOG	3	CA971113058		
	(CAN) DEFOG BLO	OWER MADE A CLANG	ING NOISE AND THE	N QUIT.							
220		BELL	ALLSN			BUFFER PAD	DISBONDED	4531	10/10/97		
		206L1	250C28B		206011100025	GD80172	M/R GRIP		CA971113046		
	(CAN) ROTOR HEA	(CAN) ROTOR HEAD ASSEMBLY RECEIVED FROM VENDOR TSO ZERO HOURS. SAME FOUND BUFFER PAD ON GRIP DEBONDED BY APPROXIMATELY 50 PERCENT.									
220		BELL	ALLSN			GRIP	CORRODED	4533	10/6/97		
		206L1	250C28B		206011100025	206011132009	M/R HEAD	817	CA971113045		
	(CAN) CORROSIO	N BEYOND LIMITS FOU	IND UNDER DEBONE	DED UPPER BLADE GI	RIP BUFFER PAD.						
6310		BELL	ALLSN			O-RING	LEAKING	10626	9/9/97		
		206B	250C20		206040230025		INNER SHAFT	647	CA971113047		
	(CAN) STATIC LEA	AK OUT OF FRONT PLU	G OF FREEWHEEL. I	PLUG WAS REMOVED	AND NEW O-RING	INSTALLED. OLD RING WA	AS DRY AND CRACKED.				
520		BELL	ALLSN			GEARBOX	PRELOADING	16485	8/25/97		
		206B	250C20			2060404005	T/R	3584	CA971015046		
	(CAN) TAIL ROTO	R GEARBOX PITCH CH	ANGE SHAFT PRE-LO	DADING TO ONE SIDE	E WHEN PITCH CHA	NGE LINKS ARE TORQUED	CAUSING VIBRATION.				
720		BELL	ALLSN			SUPPORT ASSEMBLY	CORRODED	17662	10/9/97		
		206B	250C20			206030111003	FWD BELLCRANK		CA971113052		
	(CAN) SEVERE CORROSION FOUND ON AFT LOWER SIDE OF TAIL ROTOR FORWARD CONTROL ROD BELLCRANK SUPPORT.										
730		BELL			RONSON	BOLT	OVERTORQUED	9840	7/8/97		
		206L1			2060760623		SERVO	867	CA971216037		
	(CAN) HYDRAULIC SERVO PILOT BOLT FOUND TO HAVE WASHER BOTTOMED ON SHOULDER OF BOLT, SIGNIFYING OVERTORQUE OF THE BOLT.										
120		BELL	ALLSN			STIFFENER	CRACKED		11/20/97		
		206L	250C20B		206033302103	206033201163	FWD LEFT LEG		CA971208004		
		FENER AND FRAME CR UTBOARD AFT SIDE OF				FORWARD LEFT LEG. FRA 5-1-4 HAS REPAIR.	ME CRACKED APPROXIM	IATELY .75	INCH ON EACH SIDE		
310		BELL	ALLSN			FUEL LINE	CRACKED		9/24/97		
		206B	250C20			6875632	ENG FUEL		CA971113048		
	(CAN) FUEL LEAK	FOUND WITH LINE CF	ACKED AT THE FLA	RE UNDER THE COLI	LAR AND "B" NUT.	LINE HAD BEEN INSTALLEI	O CORRECTLY.				

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
7323		BELL	ALLSN			GOVERNOR	FAILED	6361	10/30/97	
		206B	250C20			23006259	TURB GOV	396	CA971113053	
	(CAN) ROTOR RPM DROOPS TO 98 PERCENT WITH NO RECOVERY BY GOVERNOR. UNABLE TO ADJUST TO MAINTAIN PROPER RPM. TWO PREVIOUS REMOVALS FOR SAME REASON. PART TC: 2.									
7714		BELL	ALLSN			PLUG	WORN		11/4/97	
		206B	250C20		206062627003		N1 TACH GEN		CA971113054	
	(CAN) N1 TACH G	ENERATOR INDICATIO	N INTERMITTENT.	CANNON PLUG PIN W	ORN AND PUSHED	IN.				
910		BELL				ELBOW	CRACKED		10/8/97	
		212				MS21926W6	HYD LINE		CA971016020	
	` /	EAK AT A HYDRAULIO THE CRACKS RADIAT			WHEN THE 'B' NUT	WAS TIGHTENED. ELBOW	WAS FOUND CRACKED IN	2 LOCATIO	ONS ABOUT 180	
210		BELL	PWA			TIP CAP	FAILED		10/22/97	
		212	PT6T3		212040004005	204012001015	M/R BLADE		CA971028012	
		WAS INSTALLED ON FO LDE CONTACTED WIRE				NDS. TIP CAP FAILED DUE T	TO FLAPPING CAUSED BY	HIGH WIND	S THEN FORWARD	
310		BELL	PWA			SPIRALBEVEL GEAR	CRACKED	8914	11/6/97	
		212	PT6T3		212040001123	204040701101	MATING FLANGE	990	CA971110004	
	SURFACES. A SUI		UND DURING OVER			)-324-5) BECAME REDUCED BOLT HOLES IN THE GEAR.				
310		BELL	PWA			COUPLINGS	NO LUBE		11/3/97	
		212	PT6T3		212040005103		M/R DRIVE		CA971113060	
	(CAN) INSUFFICIE	NT GREASE IN BOTH I	DRIVE SHAFT COUPL	INGS. IN ADDITION,	ONE BOOT WAS FO	UND COMPLETELY TORN.				
730		BELL	PWA			SERVO	MALFUNCTIONING			
		212							10/8/97	
	(CAN) FOLLOWIN	(CAN) FOLLOWING INSTALLATION OF THIS SERVO, THE PILOT REPORTED CONTROL FEEDBACK IN THE CYCLIC CONTROL.								
<i>(510)</i>		G INSTALLATION OF T	PT6T3 HIS SERVO, THE PIL	OT REPORTED CONT	ROL FEEDBACK IN	2120760057 THE CYCLIC CONTROL.	CYCLIC	207	10/8/97 CA971016019	
510		G INSTALLATION OF T		OT REPORTED CONT	ROL FEEDBACK IN		CYCLIC CRACKED			
510			THIS SERVO, THE PIL	OT REPORTED CONT	ROL FEEDBACK IN 407040001101	THE CYCLIC CONTROL.  BRACKET	CRACKED		CA971016019	
510	(CAN) COMPLYIN	BELL 407	CHIS SERVO, THE PIL ALLSN 250C47B		407040001101	THE CYCLIC CONTROL.	CRACKED T/R DRIVE	451	CA971016019 11/20/97 CA971210019	
	(CAN) COMPLYIN	BELL 407	CHIS SERVO, THE PIL ALLSN 250C47B		407040001101	THE CYCLIC CONTROL.  BRACKET 407040321101	CRACKED T/R DRIVE	451	CA971016019 11/20/97 CA971210019	
	(CAN) COMPLYIN	BELL 407 G WITH AD CF-97-19, F	CHIS SERVO, THE PIL ALLSN 250C47B		407040001101 IOISE. WHILE REPL	THE CYCLIC CONTROL.  BRACKET  407040321101  ACING BEARING, THE BRA	CRACKED T/R DRIVE CKET WAS FOUND CRACK	451 KED. PART	CA971016019 11/20/97 CA971210019 TC: 630.	
	(CAN) AS PER AD	BELL 407 G WITH AD CF-97-19, FO BELL 407	CHIS SERVO, THE PIL ALLSN 250C47B ORWARD BEARING S OF TAIL ROTOR DRI	STARTED TO MAKE N VE SHAFT THOMAS O	407040001101 IOISE. WHILE REPL REXNARD	THE CYCLIC CONTROL.  BRACKET 407040321101  ACING BEARING, THE BRA DISC 406040340101  DO OUT. THE AFT OUTER DE	CRACKED T/R DRIVE CKET WAS FOUND CRACK CRACKED NR 7 AFT OUTER	451 KED. PART 303	CA971016019  11/20/97  CA971210019 TC: 630.  10/2/97  CA971021023	
510	(CAN) AS PER AD	BELL 407 G WITH AD CF-97-19, FO BELL 407 CF-97-19, INSPECTION	CHIS SERVO, THE PIL ALLSN 250C47B ORWARD BEARING S OF TAIL ROTOR DRI	STARTED TO MAKE N VE SHAFT THOMAS O	407040001101 IOISE. WHILE REPL REXNARD	THE CYCLIC CONTROL.  BRACKET 407040321101  ACING BEARING, THE BRA DISC 406040340101  DO OUT. THE AFT OUTER DE	CRACKED T/R DRIVE CKET WAS FOUND CRACK CRACKED NR 7 AFT OUTER	451 KED. PART 303	CA971016019  11/20/97  CA971210019 TC: 630.  10/2/97  CA971021023	
5510	(CAN) AS PER AD	BELL 407 G WITH AD CF-97-19, FO BELL 407 CF-97-19, INSPECTION CKS TAKEN FOR TESTI	CHIS SERVO, THE PIL ALLSN 250C47B ORWARD BEARING S OF TAIL ROTOR DRI	STARTED TO MAKE N VE SHAFT THOMAS O	407040001101 IOISE. WHILE REPL REXNARD	THE CYCLIC CONTROL.  BRACKET  407040321101  ACING BEARING, THE BRA  DISC  406040340101  ED OUT. THE AFT OUTER DEMID-SPAN CRACKING.	CRACKED T/R DRIVE CKET WAS FOUND CRACK CRACKED NR 7 AFT OUTER ISC OF THE NR 7 DISC PAC	451 KED. PART 303	CA971016019  11/20/97  CA971210019 TC: 630.  10/2/97  CA971021023 UND BROKEN IN TWO	
5510	(CAN) AS PER AD PLACES. DISC PA	BELL 407 G WITH AD CF-97-19, FO BELL 407 CF-97-19, INSPECTION O CKS TAKEN FOR TESTI BOLKMS BOLKMS BO105C OK INADVERTENTLY I	CHIS SERVO, THE PIL ALLSN 250C47B ORWARD BEARING S OF TAIL ROTOR DRI ING BY BELL. BHTC ALLSN 250C20B	STARTED TO MAKE N VE SHAFT THOMAS O IS REDESIGNING DIS	407040001101 IOISE. WHILE REPL REXNARD COUPLINGS CARRIE CS TO OVERCOME	THE CYCLIC CONTROL.  BRACKET  407040321101  ACING BEARING, THE BRA  DISC  406040340101  DO OUT. THE AFT OUTER DEMIC-SPAN CRACKING.  CARGO HOOK	CRACKED T/R DRIVE CKET WAS FOUND CRACKED NR 7 AFT OUTER ISC OF THE NR 7 DISC PAC FAILED SLING LOAD	451  XED. PART  303  K WAS FOL	CA971016019  11/20/97  CA971210019 TC: 630.  10/2/97  CA971021023 JND BROKEN IN TW  10/23/97  CA971119007	
5510 5510 5510 5510	(CAN) AS PER AD PLACES. DISC PA (CAN) CARGO HO	BELL 407 G WITH AD CF-97-19, FO BELL 407 CF-97-19, INSPECTION O CKS TAKEN FOR TESTI BOLKMS BOLKMS BO105C OK INADVERTENTLY I	CHIS SERVO, THE PIL ALLSN 250C47B ORWARD BEARING S OF TAIL ROTOR DRI ING BY BELL. BHTC ALLSN 250C20B	STARTED TO MAKE N VE SHAFT THOMAS O IS REDESIGNING DIS	407040001101 IOISE. WHILE REPL REXNARD COUPLINGS CARRIE CS TO OVERCOME	THE CYCLIC CONTROL.  BRACKET  407040321101  ACING BEARING, THE BRA  DISC  406040340101  DO OUT. THE AFT OUTER DEMID-SPAN CRACKING.  CARGO HOOK  AZ5LT	CRACKED T/R DRIVE CKET WAS FOUND CRACKED NR 7 AFT OUTER ISC OF THE NR 7 DISC PAC FAILED SLING LOAD	451  XED. PART  303  K WAS FOL	CA971016019  11/20/97  CA971210019 TC: 630.  10/2/97  CA971021023 JND BROKEN IN TW  10/23/97  CA971119007	
2551	(CAN) AS PER AD PLACES. DISC PA (CAN) CARGO HO	BELL 407 G WITH AD CF-97-19, FOR BELL 407 CF-97-19, INSPECTION CKS TAKEN FOR TESTION BOLKMS BOLKMS BO105C OK INADVERTENTLY IS ITEST.	CHIS SERVO, THE PIL ALLSN 250C47B ORWARD BEARING S OF TAIL ROTOR DRI ING BY BELL. BHTC ALLSN 250C20B	STARTED TO MAKE N VE SHAFT THOMAS O IS REDESIGNING DIS	407040001101 IOISE. WHILE REPL REXNARD COUPLINGS CARRIE CS TO OVERCOME	THE CYCLIC CONTROL.  BRACKET 407040321101  ACING BEARING, THE BRA DISC 406040340101  ED OUT. THE AFT OUTER DE MID-SPAN CRACKING.  CARGO HOOK AZ5LT  T TRIPPED THE CIRCUIT BR	CRACKED T/R DRIVE CKET WAS FOUND CRACKED NR 7 AFT OUTER ISC OF THE NR 7 DISC PAC FAILED SLING LOAD EAKER. ON ONE OCCASIO	451  XED. PART  303  K WAS FOL	11/20/97 CA971210019 TC: 630. 10/2/97 CA971021023 JIND BROKEN IN TW 10/23/97 CA971119007 DK WOULD NOT	

OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6320		BOLKMS	ALLSN			TRANSMISSION	FAILED	5968	10/8/97
		BO105C	250C20B			4638001001	M/R GR BOX	1984	CA971020017
	(CAN) METAL PAI	(CAN) METAL PARTICLES ON MAGNETIC CHIP PLUG OF SIZE AND QUANTITY DEEMED UNACCEPTABLE BY THE MANUFACTURER.							
6410		BOLKMS	ALLSN			BLADE	ERRODED	2600	10/8/97
		BO105C	250C20B			10531754	TAIL ROTOR		CA971020018
	(CAN) HOLE EROI	DED THROUGH LEADIN	NG EDGE OF TIP CAP						
6220		HUGHES	ALLSN			FAIRING	SEPARATED		1/17/98
		369E	250C20B			369D2100411	MAIN ROTOR HEAD		AU980097
	(AUS) MAIN ROTO ATTACHMENT SO	*	NAMANS HAT) SEPA	RATED FROM AIRCR	AFT.SUSPECT FAIR	ING DEVELOPED A CRACI	K ALLOWING THE FAIRING T	O FLEX A	ND LOOSEN THE
6410		HUGHES	ALLSN			BLADES	DELAMINATED	2910	10/29/97
		369D	250C20B			369D2161311N	T/R	130	CA971125004
	(CAN) LEADING E	DGE STRIP OF BOTH TA	AIL ROTOR BLADES	DEBONDING. DEBO	NDING OCCURRED	IN SAME AREA ON BOTH	BLADES.		
6710		HUGHES	ALLSN			SWITCH	FAILED		10/20/97
		369D	250C20B			A218100646	CYCLIC TRIM		CA971113041
	(CAN) CYCLIC TR	IM SWITCH FAILED CA	USING A HARD LEF	T TRIM MOTOR RUN	AWAY.				
7323		HUGHES	ALLSN		BENDIX	GOVERNOR	FAILED		10/3/97
		369D	250C20B			23057869	TURBINE	210	CA971113032
	(0.11) 001,000								
	(CAN) GOVERNOR ADJUST.	R ALLOWS RPM TO DRO	OOP 3 PERCENT WIT	H NO RECOVERY AN	D OVERSPEEDS 2 T	O 3 PERCENT. ERRATIC O	PERATION, OCCASIONAL SU	RGING, RI	GGING COULD NOT
7910		R ALLOWS RPM TO DRO HUGHES	OOP 3 PERCENT WIT	H NO RECOVERY AN	D OVERSPEEDS 2 T	O 3 PERCENT. ERRATIC O BOOT	PERATION, OCCASIONAL SU SPLIT	RGING, RI	GGING COULD NOT
7910				H NO RECOVERY AN	D OVERSPEEDS 2 T			RGING, RI	
7910	ÀDJÚST.	HUGHES 369D	ALLSN 250C20B			BOOT	SPLIT		11/28/97 CA971216039
7910	ÀDJÚST.	HUGHES 369D	ALLSN 250C20B			BOOT	SPLIT OIL TANK		11/28/97 CA971216039
	ÀDJÚST.	HUGHES 369D DOT CONNECTING THE	ALLSN 250C20B E ENGINE OIL TANK			BOOT  UNDER THE ATTACHING (	SPLIT OIL TANK CLAMP CAUSING THE LOSS (	OF 1.5 LITE	11/28/97 CA971216039 RE OF OIL.
	ADJÚST.  (CAN) RUBBER BO	HUGHES 369D DOT CONNECTING THE SKRSKY	ALLSN 250C20B E ENGINE OIL TANK PWA PT6T6	ΓΟ THE AIRFRAME F	ILLER NECK SPLIT	BOOT  UNDER THE ATTACHING O  BLADE  S1615203016	SPLIT OIL TANK CLAMP CAUSING THE LOSS O DEBONDING	OF 1.5 LITE	11/28/97 CA971216039 RE OF OIL. 10/21/97
	ADJÚST.  (CAN) RUBBER BO	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET	ALLSN 250C20B E ENGINE OIL TANK PWA PT6T6	ΓΟ THE AIRFRAME F	ILLER NECK SPLIT	BOOT  UNDER THE ATTACHING O  BLADE  S1615203016	SPLIT OIL TANK CLAMP CAUSING THE LOSS O DEBONDING	OF 1.5 LITE	11/28/97 CA971216039 RE OF OIL. 10/21/97
6210	ADJÚST.  (CAN) RUBBER BO	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M	ALLSN 250C20B E ENGINE OIL TANK PWA PT6T6	ΓΟ THE AIRFRAME F	ILLER NECK SPLIT	BOOT  UNDER THE ATTACHING O  BLADE  \$1615203016  IE OFF.	SPLIT OIL TANK CLAMP CAUSING THE LOSS O DEBONDING M/R	OF 1.5 LITE	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003
6210	ADJÚST.  (CAN) RUBBER BO  (CAN) DEBONDIN	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N	ALLSN 250C20B E ENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.	TO THE AIRFRAME F	ILLER NECK SPLIT S BY 8 INCHES CAM 66WBL200	BOOT  UNDER THE ATTACHING O  BLADE  S1615203016  IE OFF.  BOLTS	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF T	DF 1.5 LITE 3049 54	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003
6210	ADJÚST.  (CAN) RUBBER BO  (CAN) DEBONDIN	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N	ALLSN 250C20B E ENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.	TO THE AIRFRAME F	ILLER NECK SPLIT S BY 8 INCHES CAM 66WBL200	BOOT  UNDER THE ATTACHING O  BLADE  S1615203016  IE OFF.  BOLTS	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF T	DF 1.5 LITE 3049 54	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003
6210 2913	ADJÚST.  (CAN) RUBBER BO  (CAN) DEBONDIN	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N	ALLSN 250C20B EENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.	TO THE AIRFRAME F	ILLER NECK SPLIT S BY 8 INCHES CAM 66WBL200 DKEN. THESE BOLT	BOOT  UNDER THE ATTACHING OF BLADE S1615203016 IE OFF. BOLTS S GO THROUGH THE END	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF THE LOSS OF THE HYD PUMPEND HOUSING	DF 1.5 LITE 3049 54	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003 9/29/97 CA971110002
6210 2913	ADJUST.  (CAN) RUBBER BO  (CAN) DEBONDIN  (CAN) THREE OF THE	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N THE TOTAL OF EIGHT I	ALLSN 250C20B EENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.  NTERNAL HEX BOL TMECA ARRIEL1B	TO THE AIRFRAME F	ILLER NECK SPLIT S BY 8 INCHES CAM 66WBL200 DKEN. THESE BOLT AUXILEC	BOOT  UNDER THE ATTACHING OF BLADE S1615203016 IE OFF. BOLTS S GO THROUGH THE END SHAFT	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF THE LOSS OF THE HYD PUMING OF THE HYD PUMING SHEARED	DF 1.5 LITE 3049 54 2. 5891	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003 9/29/97 CA971110002
6210 2913	ADJUST.  (CAN) RUBBER BO  (CAN) DEBONDIN  (CAN) THREE OF THE	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N THE TOTAL OF EIGHT I SNIAS AS350B	ALLSN 250C20B EENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.  NTERNAL HEX BOL TMECA ARRIEL1B	TO THE AIRFRAME F	ILLER NECK SPLIT S BY 8 INCHES CAM 66WBL200 DKEN. THESE BOLT AUXILEC	BOOT  UNDER THE ATTACHING OF BLADE S1615203016 IE OFF. BOLTS S GO THROUGH THE END SHAFT	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF THE LOSS OF THE HYD PUMING OF THE HYD PUMING SHEARED	DF 1.5 LITE 3049 54 2. 5891	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003 9/29/97 CA971110002 11/9/97 CA971216040
6210 2913 2435	ADJUST.  (CAN) RUBBER BO  (CAN) DEBONDIN  (CAN) THREE OF THE	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N THE TOTAL OF EIGHT I SNIAS AS350B FT SHEARED, SUSPECT	ALLSN 250C20B ENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.  NTERNAL HEX BOL TMECA ARRIEL1B ON START. PART TO	TO THE AIRFRAME F	ILLER NECK SPLIT S BY 8 INCHES CAM 66WBL200 DKEN. THESE BOLT AUXILEC 524031A	BOOT  UNDER THE ATTACHING OF BLADE S1615203016 IE OFF. BOLTS S GO THROUGH THE END SHAFT 1142	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF THE LOSS OF THE HYD PUMBER SHEARED START/GEN	DF 1.5 LITE 3049 54 P. 5891 795	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003 9/29/97 CA971110002 11/9/97 CA971216040
6210 2913 2435	ADJUST.  (CAN) RUBBER BO  (CAN) DEBONDIN  (CAN) THREE OF THE CONTROL (CAN) DRIVESHALL	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N THE TOTAL OF EIGHT I SNIAS AS350B FT SHEARED, SUSPECT	ALLSN 250C20B E ENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.  NTERNAL HEX BOL TMECA ARRIEL1B ON START. PART TO	TO THE AIRFRAME FITA A SECTION 8 INCHESTS WERE FOUND BROWN.	ILLER NECK SPLIT S BY 8 INCHES CAM 66WBL200 DKEN. THESE BOLT AUXILEC 524031A AUXILEC	BOOT  UNDER THE ATTACHING OF BLADE S1615203016 IE OFF. BOLTS S GO THROUGH THE END SHAFT 1142  DRIVE SHAFT	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF THE LOSS OF THE HYD PUMP SHEARED START/GEN	DF 1.5 LITE 3049 54 2. 5891 795	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003 9/29/97 CA971110002 11/9/97 CA971216040
6210 2913 2435	ADJUST.  (CAN) RUBBER BO  (CAN) DEBONDIN  (CAN) THREE OF THE CONTROL (CAN) DRIVESHALL	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N THE TOTAL OF EIGHT I SNIAS AS350B FT SHEARED, SUSPECT SNIAS AS350B	ALLSN 250C20B E ENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.  NTERNAL HEX BOL TMECA ARRIEL1B ON START. PART TO	TO THE AIRFRAME FITA A SECTION 8 INCHESTS WERE FOUND BROWN.	ILLER NECK SPLIT S BY 8 INCHES CAM 66WBL200 DKEN. THESE BOLT AUXILEC 524031A AUXILEC	BOOT  UNDER THE ATTACHING OF BLADE S1615203016 IE OFF. BOLTS S GO THROUGH THE END SHAFT 1142  DRIVE SHAFT	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF THE LOSS OF THE HYD PUMP SHEARED START/GEN	DF 1.5 LITE 3049 54 2. 5891 795	11/28/97 CA971216039 RE OF OIL. 10/21/97 CA971125003 9/29/97 CA971110002 11/9/97 CA971216040
6210 2913 2435 2435	ADJUST.  (CAN) RUBBER BO  (CAN) DEBONDIN  (CAN) THREE OF THE CONTROL (CAN) DRIVESHALL	HUGHES 369D DOT CONNECTING THE SKRSKY S58ET G OF POCKET FROM M SKRSKY S61N THE TOTAL OF EIGHT I SNIAS AS350B FT SHEARED, SUSPECT SNIAS AS350B GENERATOR DRIVE SHA	ALLSN 250C20B E ENGINE OIL TANK PWA PT6T6 AIN ROTOR BLADE.  NTERNAL HEX BOL TMECA ARRIEL1B ON START. PART TO TMECA ARRIEL1B ARRIEL1B	TO THE AIRFRAME FITA A SECTION 8 INCHESTS WERE FOUND BROWN.	ILLER NECK SPLIT  S BY 8 INCHES CAM  66WBL200  DKEN. THESE BOLT  AUXILEC  524031A  AUXILEC  524031	BOOT  UNDER THE ATTACHING OF BLADE S1615203016  IE OFF.  BOLTS  S GO THROUGH THE END SHAFT 1142  DRIVE SHAFT 1144	SPLIT OIL TANK CLAMP CAUSING THE LOSS OF THE LOSS OF THE HYD PUMBER START/GEN  SPLIT OF THE HYD PUMBER START/GEN	54 5. 5891 795 6211 932	11/28/97 CA971216039 RE OF OIL.  10/21/97 CA971125003  9/29/97 CA971110002  11/9/97 CA971216040  9/17/97 CA971113037

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
2842		SNIAS	TMECA		JAEGER	TRANSMITTER	FAILED		8/8/97	
		AS350B	ARRIEL1B			647510033	FUEL QTY	86	CA971015042	
	(CAN) NO FUEL QUANTITY INDICATION. RESISTANCE CHECK OUT OF LIMITS.									
2913		SNIAS	TMECA			PUMP	OVERHEATED		10/18/97	
		AS350B	ARRIEL1B			350A35013504	BEARINGS		CA971113057	
	(CAN) BEARINGS	VERY TIGHT AND NOI	SY, AND RUNNING H	IOT. CAUSED DAMAG	GE TO THE HYDRAU	LIC PUMP DRIVE BELT P/N	704-A33-690-004.			
2930		SNIAS	TMECA			SWITCH	MISWIRED	2563	10/19/97	
		AS350BA	ARRIEL1B		70335476	NE15FBAT	HYD SYS		CA971104013	
	(CAN) HYDRAULIO	C CUT-OFF SWITCH W	AS MISWIRED TO WA	ARNING HORN, BUT I	FUNCTIONED PROPI	ERLY IN THE HYDRAULIC (	CUTOFF MODE. RE: SB 29	.01. PART TO	± 692.	
040		SNIAS	TMECA			HOSE	RUPTURED	9831	9/9/97	
		AS350B	ARRIEL1B			350A72072102	DEFROST		CA971015048	
	(CAN) DEFROST H	EATER HOSE DETERIC	DRATED AND BLEW	APART MELTING TH	E FIRST AID KIT.					
3422		SNIAS	TMECA			DIRECTIONAL GYRO	FAILED		10/30/97	
		AS350B	ARRIEL1B			200DC	COCKPIT DG	24	CA971216038	
	(CAN) DIRECTION	AL GYRO SPINS CONT	INUOUSLY AND VER	RY RAPIDLY.						
422		SNIAS	TMECA			CASING	BROKEN		9/15/97	
		AS350B	ARRIEL1B		5050010902		COCKPIT DG	486	CA971015051	
	(CAN) BACK CYLINDRICAL PIECE OF DIRECTIONAL GYRO FOUND HANGING BY INTERNAL WIRING. MOUNTING HARDWARE RATTLING AROUND ON INSIDE.									
5520		SNIAS				GEARBOX	FAILED	8246	10/15/97	
		AS350B2				350A33020004	TAILROTOR	1002	CA971028009	
	,	R GEARBOX MAGNETI WN AND CHECKED. M				ER TAKEOFF. A LOT OF SH	IAVINGS AND CHIPS FOU	JND. PLUG C	LEANED. AIRCRAF	
5710		SNIAS	TMECA			FRICTION CUP	DEFECTIVE	268	10/10/97	
		AS350BA	ARRIEL1B		350A270553	350A27161220	CYCLIC LOWER		CA971021012	
	(CAN) PILOT REPORTED CYCLIC CONTROLS WERE BINDING WHEN FRICTION KNOB WAS TURNED TO APPLY FRICTION. OK WITHOUT FRICTION. LOWER CUP NOT PERFECTLY ROUND SURFACE REWORKED.									
5730		SNIAS	TMECA		DUNLOP	SERVO	LEAKING	453	9/16/97	
		AS350B	ARRIEL1B			AC67246	M/R	229	CA971113035	
	(CAN) SERVO LEAKING AN EXCESSIVE AMOUNT OF OIL.									
7410		SNIAS	TMECA			HE GENERATOR	FAILED		8/15/97	
		AS350B	ARRIEL1B			ABG676000	ENG IGN		CA971015043	
	(CAN) HIGH ENERGY GENERATOR INSTALLED TO CORRECT INTERMITTENT IGNITION PROBLEM. PROBLEM PERSISTED. NEW GENERATOR WAS FAULTY.									
320		SNIAS	TMECA			SLEEVE	CRACKED		10/14/97	
		AS332L	MAKILA1A		332A32100701	332A32228822	M/R GR BOX		CA971121004	
	MARKS ON THE FI	RONT OF THE SHAFT A		APART. FURTHER IN	NVESTIGATION FOU	ON INCLUDED A DYE PENE IND THAT THESE WEAR MA				

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
7200		BEECH	PWA			ENGINE	CHIP LIGHT		12/22/97	
		99A	PT6A28				NR 1	519	CA971231005	
	OF CHIP DETECTO		E PIECE OF METAL A	ACROSS THE LUGS. T	THE ENGINE WAS A		TDOWN AND THE AIRCRAFT JRNED TO THE OVERHAUL F			
7310		BELL	ALLSN			FUEL LINE	CRACKED		9/24/97	
		206B	250C20			6875632	ENG FUEL		CA971113048	
	(CAN) FUEL LEAK	FOUND WITH LINE CF	RACKED AT THE FLA	RE UNDER THE COL	LAR AND "B" NUT.	LINE HAD BEEN INSTAL	LED CORRECTLY.			
7323		BELL	ALLSN			GOVERNOR	FAILED	6361	10/30/97	
		206B	250C20			23006259	TURB GOV	396	CA971113053	
	(CAN) ROTOR RPM PART TC: 2.	M DROOPS TO 98 PERCI	ENT WITH NO RECOV	VERY BY GOVERNOR	R. UNABLE TO ADJU	UST TO MAINTAIN PROPE	ER RPM. TWO PREVIOUS REM	IOVALS FO	R SAME REASON.	
8520		CESSNA	CONT			DOWEL	SHEARED		9/14/97	
		150L	O200A		643250	637832	STARTER CLUTCH	388	CA971231011	
		E CRANKCASE. THE RI					ING IN GEAR MISALIGNMEN LATION OF THE STARTER CI			
7322		CESSNA	CONT			CARBURETOR	FAILED		12/14/97	
		182Q	O470U			105284	ENGINE	923	CA971223011	
	(CAN) SEVERE CARBURETOR FLOODING ON GROUND RUN-UP, HARD STARTING AND FOULING OF SPARK PLUGS. FUEL WAS SEEN LEAKING FROM THE CARBURETOR. ENGINE FAILED TO SHUTDOWN USING MIXTURE CONTROL AND SEVERE BACKFIRING OCCURRED. THE CARBURETOR WAS REPLACED AND THE PROBLEM WAS ELIMINATED.									
7323		HUGHES	ALLSN		BENDIX	GOVERNOR	FAILED		10/3/97	
		369D	250C20B			23057869	TURBINE	210	CA971113032	
	(CAN) GOVERNOF ADJUST.	R ALLOWS RPM TO DR	OOP 3 PERCENT WIT	H NO RECOVERY AN	D OVERSPEEDS 2 T	O 3 PERCENT. ERRATIC	OPERATION, OCCASIONAL S	URGING, RI	GGING COULD NOT	
8520		PIPER	LYC			CAMSHAFT	WORN		12/29/97	
		PA22108	O235C1				ENGINE	855	CA971231022	
	(CAN) ENGINE CA	MSHAFT FOUND WOR	N. ENGINE CAMSHA	FT REPLACED.						
7322		PIPER	LYC	SNSNCH	FACET	WASHER	WORN		2/3/98	
		PA28181	O360A4M	76EM8	MA45	78356	FUEL CARB		AU980075	
	'	TOR MIXTURE SHAFT BROUGHT BACK TO I		ORN AND LOOSE ALI	LOWING THE MIXT	URE SHAFT TO MOVE FR	OM ITS NORMAL POSITION.	ΓHIS CAUSI	ED A RICH CUT WHEN	
(E. J. of INT	TERNATIONAL SEL	RVICE DIFFICULTY I	REPORT SUMMAR	Y - ENGINES)						

## <u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS</u>

3/22/98 - 3/2	2/92	<b>ISSUE:</b>	98-13	<b>ZAC-327</b>
3144190 - 314	のノフロー	100 UE:	70-13	<b>LAU-34</b>

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2562		BEECH	PWA	HARTZL		BATTERY	LEAKING		1/22/98
		200BEECH	PT6A41	HCB3TN3	E01		EMERGENCY LOCATO		AU980064
	(AUS) ELT BATTER	RIES LEAKING. FOUND	DURING BATTERY C	CHANGE.					
3422		SNIAS	TMECA			DIRECTIONAL GYRO	FAILED		10/30/97
		AS350B	ARRIEL1B			200DC	COCKPIT DG	24	CA971216038
	(CAN) DIRECTION	AL GYRO SPINS CONT	NUOUSLY AND VER	Y RAPIDLY.					
3422		SNIAS	TMECA			CASING	BROKEN		9/15/97
		AS350B	ARRIEL1B		5050010902		COCKPIT DG	486	CA971015051
	(CAN) BACK CYLI	NDRICAL PIECE OF DI	RECTIONAL GYRO FO	OUND HANGING BY	INTERNAL WIRING.	MOUNTING HARDWARE F	ATTLING AROUND ON INSII	DE.	
(End of IN	TERNATIONAL SER	VICE DIFFICULTY F	REPORT SUMMARY	Z - COMPONENTS)					

### <u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS</u>

3/22/08	- 3/28/98	ICCIIE.	08-13	ZAC-327
3/44/90	- 3/40/70	ISSUE:	70-13	7/AU-34/

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		PIPER	LYC	HARTZL		BLADE BEARINGS	CORRODED	3189	12/19/97
		PA24250	O540A1A5	HC82V*		790100018	PROP	813	CA971231018
	(CAN) PROPELLER	R RECEIVED FOR CORR	OSION INSPECTION.	BLADE BALL BEAR	INGS AND PILOT TUI	BE FOUND CORRODED.			
6114		PIPER	LYC	HARTZL		SCREWS	LOOSE	1140	12/20/97
		PA30	IO320B1A	HCE2YL2	83021	AN501A41610	LATCH STOP		CA971231020
	WHICH SECURES	IT TO THE CYLINDER. TCH PINS WERE HOLD	THE 4TH SCREW HAI	O LOCKTITE ON THE	E SCREW THREADS.	BUT THE SCREWS WERE	D VIBRATED COMPLETELY ( NOT COMPLETELY SECUREI VITHE EXTENDED POSITION.	O TO THE	LOCK STOP BASE.
6111		PIPER	LYC	HARTZL	HARTZL	LOCKING PINS	MISSING	494	12/20/97
		PA31	TIO540A2C	HCE3YR2A	FC84686R	57A0285	PROP		CA971231019
	` /	SPECTION PRIOR TO DE FBOLTS WERE NOT DE	· · · · · · · · · · · · · · · · · · ·		ERWEIGHT LOCKING	FROLL PINS WERE MISSIN	IG ON ALL THREE BLADES (6	6 BOLTS)	ALSO, THE

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)



# SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

#### 3/22/98 To 3/28/98 ISSUE: 98-13 ZAC-327

## **GENERAL AVIATION SUMMARY INDEX BY DISTRICT OFFICE**

DISTRICT				LS BY FAA A					
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AL 03	0	1	0	0	0	0	1	0	2
AU S	0	5	7	0	12	1	1	1	27
CA	0	12	5	0	0	26	9	2	54
EA 05	0	1	0	0	0	0	0	0	1
EA 17	0	0	1	0	0	0	0	0	1
EA 21	0	0	0	0	0	0	1	0	1
GL 01	0	1	0	0	0	0	0	0	1
GL 03	0	1	0	0	0	0	0	0	1
GL 19	0	0	0	0	1	0	0	0	1
GL 25	0	0	2	0	3	0	1	0	6
GL 27	0	0	0	0	0	0	1	0	1
NE 01	0	0	0	0	0	1	0	0	1
NE 05	0	0	0	0	0	1	0	0	1
NM 01	0	1	0	0	0	0	0	0	1
NM 03	0	1	0	0	3	1	0	0	5
NM 05	0	0	0	0	1	0	0	0	1
NM 07	0	1	0	0	0	0	1	0	2
NM 09	0	1	1	0	0	0	0	0	2
NM 11	0	0	0	0	1	0	13	0	14
SO 01	0	0	0	0	0	0	1	0	1
SO 03	0	1	1	0	0	0	0	0	2
SO 15	0	1	0	0	0	0	0	0	1
SO 17	0	0	0	0	3	0	0	0	3
SO 19	0	0	0	0	0	1	0	0	1
SO 21	0	0	0	0	0	0	0	1	1
SW 03	0	16	13	0	0	21	9	0	59

CENTED AT			DISTRICT OFFICE (cont'd)
CHINERAL	. AVIATION	NUMBER OF THE STATE OF THE STAT	DISTRICT OFFICE (CONTA)

3/22/98	To 3/28/98	ISSUE: 98-13	ZAC-327

DISTRICT	DISTRICT SDR TOTALS BY FAA ATA SYSTEM CHAPTER								
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
SW 05	0	0	0	0	0	1	0	0	1
SW 17	0	0	0	0	1	0	0	1	2
SW 99	0	2	1	0	2	0	0	1	6
WP 07	0	0	0	0	0	1	1	0	2
WP 09	0	0	1	0	0	0	0	0	1
WP 17	0	0	0	0	1	0	0	0	1
WP 19	0	1	0	0	0	0	0	0	1
WP 23	0	0	0	0	0	0	2	0	2
TOTALS	0	46	32	0	28	54	41	6	207

#### GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL

3/22/98 To 3/28/98 ISSUE: 98-13 ZAC-327

AIRCRAFT	AIRCRAFT					TA SYSTEM				
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AEROSP	AS355F1	0	0	0	0	0	1	0	0	1
AIRTRC	AT502A	0	0	0	0	1	0	0	0	1
AMTRMX	XP503	0	0	1	0	0	0	0	0	1
BBAVIA	7ECA	0	0	0	0	0	0	1	0	1
BEECH	200BEECH	0	1	0	0	0	0	0	0	1
BEECH	58	0	0	0	0	1	0	0	0	1
BEECH	65A90	0	1	0	0	0	0	0	0	1
BEECH	99A	0	1	0	0	0	0	1	0	2
BEECH	F33A	0	1	0	0	0	0	0	0	1
BELL	206B	0	1	1	0	0	3	3	0	8
BELL	206B3	0	1	0	0	0	0	0	0	1
BELL	206L	0	0	0	0	0	0	1	0	1
BELL	206L1	0	2	2	0	0	3	0	0	7
BELL	206L3	0	0	3	0	0	1	0	0	4
BELL	212	0	1	1	0	0	4	0	0	6
BELL	214ST	0	5	0	0	0	1	1	0	7
BELL	230	0	0	0	0	0	9	0	0	9
BELL	407	0	1	1	0	0	4	0	0	6
BELL	412	0	6	3	0	0	3	5	0	17
BELL	OH58A	0	0	1	0	0	0	0	0	1
BNORM	BN2A26	0	0	0	0	2	0	0	0	2
BOEING	1072	0	1	0	0	0	0	0	0	1
BOLKMS	BK117A3	0	0	0	0	0	0	4	0	4
BOLKMS	BK117A4	0	0	0	0	0	0	9	0	9
BOLKMS	BO105C	0	1	0	0	0	2	0	0	3
BOLKMS	BO105S	0	0	1	0	0	1	2	0	4
CESSNA	120	0	0	0	0	3	0	0	0	3

	IATION SUMMARY I		TITO TOTAL			~				E: 98-13 ZAC-32
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
CESSNA	150L	0	0	0	0	0	0	0	1	1
CESSNA	172N	0	0	0	0	1	0	0	0	1
CESSNA	172P	0	0	0	0	0	0	0	1	1
CESSNA	182L	0	0	0	0	1	0	0	0	1
CESSNA	182Q	0	0	0	0	0	0	1	0	1
CESSNA	182S	0	0	0	0	0	0	1	0	1
CESSNA	210G	0	0	0	0	1	0	0	0	1
CESSNA	310P	0	0	1	0	0	0	0	0	1
CESSNA	310R	0	1	0	0	0	0	0	0	1
CESSNA	320A	0	0	0	0	2	0	0	0	2
CESSNA	340A	0	0	1	0	3	0	0	0	4
CESSNA	402B	0	1	0	0	0	0	0	0	1
CESSNA	402C	0	2	0	0	0	0	1	0	3
CESSNA	414A	0	1	0	0	0	1	0	0	2
CESSNA	421C	0	0	0	0	1	0	0	0	1
CESSNA	441	0	0	0	0	0	0	1	0	1
CESSNA	A185E	0	0	1	0	0	0	0	0	1
CESSNA	R172K	0	0	0	0	0	0	1	0	1
CESSNA	T210L	0	0	0	0	2	0	0	0	2
DHAV	DHC6100	0	0	1	0	0	0	0	0	1
DHAV	DHC6300	0	1	0	0	0	0	0	0	1
EMB	EMB110P1	0	0	1	0	0	0	0	0	1
ENSTRM	280C	0	0	0	0	0	1	0	0	1
GULSTM	500B	0	0	0	0	1	0	0	0	1
GULSTM	560	0	1	0	0	0	0	0	0	1
GULSTM	AA1C	0	0	0	0	0	0	0	1	1

HUGHES

369D

AIRCRAFT	AIRCRAFT			SDR TOTA	LS BY FAA A	TA SYSTEM	CHAPTER			
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
HUGHES	369E	0	0	0	0	0	1	1	0	2
PARTEN	P68C	0	0	0	0	0	0	0	1	1
PIPER	PA11	0	1	0	0	0	0	0	0	1
PIPER	PA22108	0	0	0	0	0	0	0	1	1
PIPER	PA24250	0	0	0	0	0	1	0	0	1
PIPER	PA28140	0	1	0	0	1	0	0	0	2
PIPER	PA28181	0	0	2	0	0	0	2	0	4
PIPER	PA28235	0	1	0	0	0	0	0	0	1
PIPER	PA30	0	0	0	0	0	1	0	0	1
PIPER	PA31	0	1	0	0	0	1	0	0	2
PIPER	PA31310	0	0	0	0	0	1	0	0	1
PIPER	PA31350	0	2	5	0	8	0	0	1	16
PIPER	PA34200	0	0	0	0	0	1	0	0	1
PIPER	PA34200T	0	1	0	0	0	0	0	0	1
PIPER	PA46350P	0	0	0	0	0	0	1	0	1
PIPER	PA60601P	0	1	0	0	0	0	0	0	1
ROBSIN	R44	0	0	0	0	0	2	0	0	2
SKRSKY	S58ET	0	0	0	0	0	1	0	0	1
SKRSKY	S61N	0	1	0	0	0	0	0	0	1
SKRSKY	S76A	0	0	0	0	0	0	1	0	1
SKRSKY	S76C	0	1	0	0	0	0	0	0	1
SNIAS	AS332L	0	0	0	0	0	1	0	0	1
SNIAS	AS350B	0	4	4	0	0	3	1	0	12
SNIAS	AS350B2	0	0	2	0	0	4	0	0	6
SNIAS	AS350BA	0	2	0	0	0	1	0	0	3

(End of AIR CARRIER SUMMARY INDEX by OPERATOR Report)

**TOTALS** 

## JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

#### **PREFACE**

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

# **JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE**

## JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

11 PLACARDS AND	MARKINGS 22	AUTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100 PLACARDS AND N	MARKINGS 2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
	2210		2425	AC INDICATING SYSTEM
12 SERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
12 021(11011(0	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010 51151 0551/101110	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210 FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220 OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230 HYDRAULIC FLUID	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240 COOLANT SERVIC	ING 2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 HELICOPTED VIDE	2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
18 HELICOPTER VIBE	2250	A ERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800 HELICOPTER VIB/I	NOISE ANALYSIS		2450	AC POWER DISTRIBUTION SYSTEM
1810 HELICOPTER VIBR	ATION ANALYSIS 23	COMMUNICATIONS	2460	DC POWER/DISTRIBUTION SYSTEM
1820 HELICOPTER NOIS	E ANALYSIS			
24 AIR CONDITIONIA	2300		<u> 25 E</u>	QUIPM ENT/FURNISHINGS
21 AIR CONDITIONIN			0500	CARIN FOURMENT/FURNIOUMO
2100 AIR CONDITIONIN	G SYSTEM 2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110 CABIN COMPRESS	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120 AIR DISTRIBUTION	2220	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121 AIR DISTRIBUTION	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
	CONTROL SYSTEM 2340	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131 CABIN PRESSURE	2250	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132 CABIN PRESSURE	2260	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
	/OUTFLOW VALVE 2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134 CABIN PRESSURE		ELECTRICAL POWER	2561	LIFE JACKET
2140 HEATING SYSTEM	- · · ·	<u> LEEGTRIOAL TOWER</u>	2562	EMERGENCY LOCATOR BEACON
2150 CABIN COOLING S		ELECTRICAL POWER SYSTEM	2563	PARACHUTE
	URE CONTROL SYSTEM 2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
	URE CONTROLLER 2420		2565	ESCAPE SLIDE
2162 CABIN TEMPERAT			2570	ACCESSORY COMPARTMENT
2163 CABIN TEMPERAT	****		2571	BATTERY BOX STRUCTURE
	0112 02110011		2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	29 I	HYDRAULIC POWER	32 L	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
AZ FILOUT CONTROL C	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	30	ICE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	33 I	<u>.IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL		
2780 LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781 LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 FUEL	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31</u>	<u>INSTRUMENTS</u>	3340 3350	EXTERIOR LIGHTING EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	<u>IAVIGATION</u>
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

34 NAVIGATION CONT'D	37 VACUUM	5247 APU DOORS
3417 AIR DATA COMPUTER	3700 VACUUM SYSTEM	5248 TAIL CONE DOORS
3418 STALL WARNING SYSTEM	3710 VACUUM DISTRIBUTION SYSTEM	5250 FIXED INNER DOORS
3420 ATTITUDE AND DIRECTION DATA SYSTEM	3720 VACUUM INDICATING SYSTEM	5260 ENTRANCE STAIRS
3421 ATTITUDE GYRO & IND. SYSTEM		5270 DOOR WARNING SYSTEM
3422 DIRECTIONAL GYRO & IND. SYSTEM	38 WATER/WASTE	5280 LANDING GEAR DOORS
3423 MAGNETIC COMPASS	3800 WATER & WASTE SYSTEM	53 FUSELAGE
3424 TURN & BANK/RATE OF TURN INDICATOR	3810 POTABLE WATER SYSTEM	5300 FUSELAGE STRUCTURE (GENERAL)
3425 INTEGRATED FLT. DIRECTOR SYSTEM	3820 WASH WATER SYSTEM	5301 A ERIAL TOW EQUIPMENT
3430 LANDING & TAXI AIDS	3830 WASTE DISPOSAL SYSTEM	5302 ROTORCRAFT TAIL BOOM
3431 LOCALIZER/VOR SYSTEM	3840 AIR SUPPLY (WATER PRESS. SYSTEM)	5310 FUSELAGE MAIN STRUCTURE
3432 GLIDE SLOPE SYSTEM 3433 MICROWAVE LANDING SYSTEM	45 CENTRAL MAINT. SYSTEM	5311 FUSELAGE MAIN FRAME 5312 FUSELAGE MAIN BULKHEAD
3434 MARKER BEACON SYSTEM	4500 CENTRAL MAINT, COMPUTER	5313 FUSELAGE MAIN LONGERON/STRINGER
3435 HEADS UP DISPLAY SYSTEM	1000 GENTINE IIII III GOIII GTEN	5314 FUSELAGE MAIN KEEL
3436 WIND SHEAR DETECTION SYSTEM	49 AIRBORNE AUXILIARY POWER	5315 FUSELAGE MAIN FLOOR BEAM
3440 INDEPENDENT POS. DETERMINING SYSTEM	4000 AIDDODNE ADU CVCTEM	5320 FUSELAGE MISCELLANEOUS STRUCTURE
3441 INERTIAL GUIDANCE SYSTEM	4900 AIRBORNE APU SYSTEM 4910 APU COWLING/CONTAINMENT	5321 FUSELAGE FLOOR PANEL
3442 WEATHER RADAR SYSTEM	4920 APU CORE ENGINE	5322 FUSELAGE INTERNAL MOUNT STRUCTURE
3443 DOPPLER SYSTEM	4930 APU ENGINE FUEL & CONTROL	5323 FUSELAGE INTERNAL STAIRS
3444 GROUND PROXIMITY SYSTEM	4940 APU START/IGNITION SYSTEM	5324 FUSELAGE FIXED PARTITIONS
3445 AIR COLLISION AVOIDANCE SYSTEM (TCAS)	4950 APU BLEED AIR SYSTEM	5330 FUSELAGE MAIN PLATE/SKIN
3446 NON RADAR WEATHER SYSTEM	4960 APU CONTROLS	5340 FUSELAGE MAIN ATTACH FITTINGS
3450 DEPENDENT POSITION DETERMINING SYSTEM	4970 APU INDICATING SYSTEM	5341 WING ATTACH FITTINGS (ON FUSELAGE)
3451 DME/TACAN SYSTEM	4980 APU EXHAUST SYSTEM	5342 STABILIZER ATTACH FITTINGS
3452 ATC TRANSPONDER SYSTEM	4990 APU OIL SYSTEM	5343 LANDING GEAR ATTACH FITTINGS
3453 LORAN SYSTEM	4990 ALOGIE GIGIEM	5344 FUSELAGE DOOR HINGES
3454 VOR SYSTEM	51 STANDARD PRACTICES/STRUCTURES	5345 FUSELAGE EQUIPMENT ATTACH FITTINGS
3455 ADF SYSTEM	FACO CTANDADD DDACTIOEC/CTDUCTUDEC	5346 POWERPLANT ATTACH FITTINGS
3456 OMEGA NAVIGATION SYSTEM	5100 STANDARD PRACTICES/STRUCTURES 5101 AIRCRAFT STRUCTURES	5347 SEAT/CARGO ATTACH FITTINGS
3457 GLOBAL POSITIONING SYSTEM	5101 AIRCRAFT STRUCTURES 5102 BALLOON REPORTS	5350 FUSELAGE AERODYNAMIC FAIRINGS
3460 FLIGHT MANAGE. COMPUTING SYSTEM	5102 BALLOON REPORTS	54 NACELLES/PYLONS
35 OXYGEN	52 DOORS	5400 NACELLE/PYLON STRUCTURE
	<u>01                                    </u>	5410 MAIN FRAME (ON NACELLE/PYLON)
3500 OXYGEN SYSTEM	5200 DOORS	5411 FRAME/SPAR/RIB(NACELLE/PYLON)
3510 CREW OXYGEN SYSTEM	5210 PASSENGER/CREW DOORS	5411 FRAME/SPAR/RIB(NACLEEL/PTEON) 5412 BULKHEAD/FIREWALL (NAC/PYLON)
3520 PASSENGER OXYGEN SYSTEM	5220 EMERGENCY EXIT	5413 LONGERON/STRINGER (NAC/PYLON)
3530 PORTABLE OXYGEN SYSTEM	5230 CARGO/BAGGAGE DOORS	5414 PLATE SKIN (NAC/PYLONS)
36 PNEUMATIC	5240 SERVICE DOORS	5415 ATTACH FITTINGS (NAC/PYLON)
	5241 GALLEY DOORS	,
3600 PNEUMATIC SYSTEM 3610 PNEUMATIC DISTRIBUTION SYSTEM	5242 E/E COMPARTMENT DOORS	<u>55 STABILIZERS</u>
3620 PNEUMATIC DISTRIBUTION SYSTEM 3620 PNEUMATIC INDICATING SYSTEM	5243 HYDRAULIC COMPARTMENT DOORS	5500 EMPENNAGE STRUCTURE
3020 THEOMATIC INDICATING STSTEM	5244 ACCESSORY COMPARTMENT DOORS	5510 HORIZONTAL STABILIZER STRUCTURE
	5245 AIR CONDITIONING COMPART. DOORS	5511 HORIZONTAL STABILIZER SPAR/RIB
	5246 FLUID SERVICE DOORS	5512 HORIZONTAL STABILIZER PLATE/SKIN
		5513 HORIZONTAL STABILIZER TAB STRUCTURE
		5520 ELEVATOR STRUCTURE

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE	6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION	
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION
5551 HORIZONTAL STABILIZER ATTACH FITTING		7130 ENGINE FIRESEALS
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES	
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE
56 WINDOWS	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR
5610 FLIGHT COMPARTMENT WINDOWS		7220 TURBINE ENGINE AIR INLET SECTION
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION
3040 INSPECTION WINDOWS	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE
57 WINGS	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM
	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION
5700 WING STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	7270 TORBINE ENGINE BIT AGG GEOTION
5710 WING MAIN FRAME STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL
5711 WING SPAR STRUCTURE		7300 ENGINE FUEL & CONTROL
5712 WING RIB STRUCTURE	<u>64 TAIL ROTOR</u>	7310 ENGINE FUEL DISTRIBUTION
5713 WING LONGERON/STRINGER	6400 TAIL ROTOR SYSTEM	7310 ENGINE FUEL DISTRIBUTION 7311 ENGINE FUEL-OIL COOLER
5714 WING CENTER BOX	6410 TAIL ROTOR BLADE	
5720 WING MISCELLANEOUS STRUCTURE	6420 TAIL ROTOR BLADE	7312 FUEL HEATER 7313 FUEL INJECTOR NOZZLE
5730 WING PLATES/SKINS	6440 TAIL ROTOR INDICATING SYSTEM	
5740 WING ATTACH FITTINGS	0440 TAIL ROTOR INDICATING STSTEM	7314 ENGINE FUEL PUMP
5741 WING, FUSELAGE ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7320 FUEL CONTROLLING SYSTEM
5742 WING, NAC/PYLON ATTACH FITTINGS	<u> </u>	7321 FUEL CONTROL/ELECTRONIC
5743 WING, LANDING GEAR ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7322 FUEL CONTROL/CARBURETOR
5744 CONTROL SURFACE ATTACH FITTINGS	6510 TAIL ROTOR DRIVE SHAFT	7323 TURBINE GOVERNOR
5750 WING CONTROL SURFACE STRUCTURE	6520 TAIL ROTOR GEARBOX	7324 FUEL DIVIDER
5751 AILERON STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7330 ENGINE FUEL INDICATING SYSTEM
5752 AILERON TAB STRUCTURE		7331 FUEL FLOW INDICATING
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR

74	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	8530	RECIPROCATING ENGINE CYLINDER SECTION
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR		
7412	EXCITER	7830	THRUST REVERSER		
7413	INDUCTION VIBRATOR				
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL		
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>			
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)		
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)		
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)		
<u>75 / </u>	<u>AIR</u>	7921	ENGINE OIL COOLER		
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR		
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE		
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM		
7530	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE		
7531	COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY		
7532	COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE		
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>		
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM		
7600	ENGINE CONTROLS	8010	ENGINE CRANKING		
7600	ENGINE CONTROLS  ENGINE SYNCHRONIZING	8011	ENGINE STARTER		
7601		8012	ENGINE START VALVES/CONTROLS		
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO		
7603	POWER LEVER	81	TURBOCHARGING		
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>		
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)		
		8110	POWER RECOVERY TURBINE (RECIP)		
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER		
7710	POWER INDICATING SYSTEM				
7711	ENGINE PRESSURE RATIO (EPR)	82	WATER INJECTION		
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM		
7713	MANIFOLD PRESSURE (MP) INDICATING				
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES		
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0300	ACCESSORT GEARBOXES		
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE		
7730	ENGINE IGNITION ANALYZER SYSTEM				
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)		
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO	N	
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N	

### **MECHANICS CREED**

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.